

# SEQUENCE LISTING

<110> Aros Applied Biotechnology ApS

<120> Classification of Cancer

<130> 69167(302423)

<140> US 10/584,653

<141> 2006-06-27

<150> PCT/DK04/000914

<151> 2004-12-23

<150> PA 2004 01843

<151> 2004-11-26

<150> PA 2004 00586

<151> 2004-04-07

<150> PA 2004 00096

<151> 2004-01-24

<150> PA 2003 01940

<151> 2003-12-27

<160> 139

<170> PatentIn version 3.1

<210> 1

<211> 1237

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_002985.2| chemokine (C-C motif) ligand 5 (CCL5), mRNA

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| gcgctcctgc atctgcctcc ccatattcct cggacaccac accctgctgc ttgacctaca | 180 |
| ttgcccgccc actgccccgt gccacatca aggagtattt ctacaccagt ggcaagtgtct | 240 |
| ccaaccagc agtcgtcttt gtcacccgaa agaaccgcca agtgtgtgcc aaccagaga   | 300 |
| agaaatgggt tcgggagtag atcaactctt tggagatgag ctaggatgga gagtccctga | 360 |
| acctgaactt acacaaattt gcctgtttct gcttgctctt gtcctagctt gggaggcttc | 420 |
| ccctcactat cctacccac ccgctccttg aagggccag attctaccac acagcagcag   | 480 |

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| ttacaaaaac cttccccagg ctggacgtgg tggctcacgc ctgtaatccc agcactttgg | 540  |
| gaggccaagg tgggtggatc acttgaggtc aggagttcga gaccagcctg gccaacatga | 600  |
| tgaaacccca tctctactaa aaatacaaaa aattagccgg gcgtggtagc gggcgctgt  | 660  |
| agtcccagct actcgggagg ctgaggcagg agaatggcgt gaaccggga ggcggagctt  | 720  |
| gcagtgagcc gagatcgcg cactgcactc cagcctgggc gacagagcga gactccgtct  | 780  |
| caaaaaaaaa aaaaaaaaaa aaaatacaaa aattagccgg gcgtggtagc ccacgcctgt | 840  |
| aatcccagct actcgggagg ctaaggcagg aaaattgttt gaaccaggga ggtggaggct | 900  |
| gcagtgagct gagattgtgc cacttcactc cagcctgggt gacaaagtga gactccgtca | 960  |
| caacaacaac aacaaaaagc ttccccaact aaagcctaga agagcttctg aggcgctgct | 1020 |
| ttgtcaaaa gaagtctcta ggttctgagc tctggctttg ctttggcttt gccagggctc  | 1080 |
| tgtgaccagg aaggaaagta gcatgcctct agaggcaagg aggggaggaa cactgcactc | 1140 |
| ttaagcttcc gccgtctcaa cccctcacag gagcttactg gcaaacatga aaaatcgggt | 1200 |
| taccattaaa gttctcaatg caaccataaa aaaaaaa                          | 1237 |

<210> 2

<211> 2884

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004184.3| tryptophanyl-tRNA synthetase (WARS),  
transcript variant 1, mRNA

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| tggacagtct catcaagaag gttggtcaag agctcaagtg tttctgagaa tctgggtgat | 120 |
| ttataagaaa cccttagctg aatgcagggt ggggagaacg aaagacaaaa gcatcttttt | 180 |
| tcagaagggg aactgaaaga aagaggggaa gagtattaaa gaccatttct ggctgggacg | 240 |
| ggcactctca gcagctcaac tgcccagcgt gaccagtggc cacctctgca gtgtcttcca | 300 |
| caacctggtc ttgactcgtc tgctgaacaa atcctctgac ctgaggccgg ctgtgaacgt | 360 |
| agtctctgag agatagcaaa catgcccaac agtgagcccg catctctgct ggagctgttc | 420 |
| aacagcatcg ccacacaagg ggagctcgta aggtccctca aagcgggaaa tgcgtcaaa  | 480 |
| gatgaaattg attctgcagt aaagatgttg gtgtcattaa aaatgagcta caaagctgcc | 540 |
| gcgggggagg attacaaggc tgactgtcct ccagggaacc cagcacctac cagtaatcat | 600 |
| ggcccagatg ccacagaagc tgaagaggat tttgtggacc catggacagt acagacaagc | 660 |
| agtgcaaaag gcatagacta cgataagctc attgttcggt ttggaagtag taaaattgac | 720 |

|  |      |
|--|------|
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| cagatgacgg atgacgagaa gtatctgtgg aaggacctga ccctggacca ggcctatagc  | 1020 |
| tatgtctgtg agaatgccaa ggacatcatc gcctgtggct ttgacatcaa caagactttc  | 1080 |
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| gggccaccct gttctgtgcc atggaggact ccgagggttc caagtatact ctaagacc    | 2160 |
| actctgttta aaaatatata ttctatgtat gcgtatatgg aattgaaatg tcattattgt  | 2220 |
| aacctagaaa gtgctttgaa atattgatgt ggggaggttt attgagcaca agatgtattt  | 2280 |
| cagcccatgc ccctcccaa aaagaaattg ataagtaaaa gcttcgttat acatttgact   | 2340 |
| aagaaatcac ccagctttaa agctgctttt aacaatgaag attgaacaga gttcagcaat  | 2400 |
| tttgattaaa ttaagacttg ggggtgaaac ttccagttt actgaactcc agaccatgca   | 2460 |
| tgtagtccac tccagaatc atgctcgctt cccttggcac accagtgttc tctgccaaa    | 2520 |
| tgacctaga cctctgtcc tgacagtgca ggggtgcttt tccctgact gtgtccgatg     | 2580 |
| ccaaggagtc ctggcctccg cagatgcttc attttgacc ttggctgcag tgggaagtcag  | 2640 |

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| cacagagcag  | tgccctggct | gtgtccctgg | acgggtggac | ttagctaggg | agaaagtcga | 2700 |
| ggcgagcagcc | ctcgaggccc | tcacagatgt | ctaggcaggc | ctcatttcac | cacgcagcat | 2760 |
| gtgcaggcct  | ggaagagcaa | agccaaatct | cagggaagtc | cttggttgat | gtatctgggt | 2820 |
| ctcctctgga  | gcactctgcc | ctcctgtcac | ccagtagagt | aaataaactt | ccttggtctc | 2880 |
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<210> 3

<211> 1012

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006263.2| proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (PSME1), transcript variant 1, mRNA

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| ctccttgtagc | ggcgctaggc | ccccgtccc ggtcatggcc atgctcaggg tccagccga 120    |
| ggcccaagcc  | aagggtgatg | tgtttcgtga agacctctgt accaagacag agaacctgct 180  |
| cgggagctat  | ttccccaaga | agattttctga gctggatgca tttttaaagg agccagctct 240 |
| caatgaagcc  | aacttgagca | atctgaaggc ccattggac atcccagtc ctgatccagt 300    |
| caaggagaaa  | gagaaagagg | agcgaagaa acagcaggag aaggaagaca aggatgaaaa 360   |
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| gatcgtggtc  | cttctgcagc | gcttgaagcc tgagatcaag gatgtcattg agcagctcaa 480  |
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| caagcagccc  | catgtgggtg | attatcggca gctggtgcac gagctggatg aggcagagta 720  |
| ccgggacatc  | cggtctgatg | tcattggagat ccgcaatgct tatgtctgtg tatatgacat 780 |
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| ttgagagccc  | tctctcccat | tctgtgatga gtacagcaga gaccttcctg ctttttactg 900  |
| gggactccag  | attttcccca | aacttgcttc tgttgagatt tttccctcac cttgcctctc 960  |
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<211> 983

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004335.2| bone marrow stromal cell antigen 2 (BST2), mRNA

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<210> 5

<211> 1260

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004223.3| ubiquitin-conjugating enzyme E2L 6 (UBE2L6), transcript variant 1, mRNA

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|            |            |            |            |            |            |      |
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| gatgccaatg | tcttggtgtg | gcacgctctc | ctcctaccgc | accaacctcc | ctaccacctg | 240  |
| aaagccttca | acctgcgcac | cagcttcccg | ccggagtatc | cgttcaagcc | teccatgac  | 300  |
| aaattcacaa | ccaagatcta | ccacccaac  | gtggacgaga | acggacagat | ttgcctgccc | 360  |
| atcatcagca | gtgagaactg | gaagccttgc | accaagactt | gccaagtctt | ggaggccctc | 420  |
| aatgtgctgg | tgaatagacc | gaatatcagg | gagccccctg | ggatggacct | cgtgacctg  | 480  |
| ctgacacaga | atccggagct | gttcagaaag | aatgccgaag | agttcacctt | ccgattcgga | 540  |
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| tcccttctta | ggttgttagt | cattagtttg | tgtgtgtgtg | tggtggaggg | aaggaggcta | 720  |
| tgagtgtgtg | tgttgtgtat | ggactcactc | ccaggttcac | ctggccacag | gtgcaccctt | 780  |
| cccacacctt | ttacattccc | cagagccaag | ggagtttaag | tttgacgtta | caggccagtt | 840  |
| ctccagctct | ccatcttaga | gagacaggtc | accttgacgg | cctgcttgca | ggaaatgaat | 900  |
| ccagcagcca | actgaatcc  | ccctagggct | caggcactga | gggctgggg  | acagtggagc | 960  |
| atatgggtgg | gagacagatg | gagggtaccc | tatttacaac | tgagtcagcc | aagccactga | 1020 |
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| agaatcaaac | ttccatcctg | aaaatctata | tgtttcaaaa | ccacttgcca | tcctgttaga | 1140 |
| ttgccagttc | ctgggaccag | gcctcagact | gtgaagtata | tatctccag  | cattcagttc | 1200 |
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<210> 6

<211> 3799

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003488.2| A kinase (PKA) anchor protein 1 (AKAP1), nuclear gene encoding mitochondrial protein, transcript variant 1, mRNA

<400> 6

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| cgggccgcgg | ggcacagccg | ggggccggcg | gcggcgcgcg | gactccgcac  | cccgcacccc  | 120 |
| gatggtagcc | gaggagctgg | tgtaattact | tcaagcctcc | aggatggcaa  | tccagttccg  | 180 |
| ttcgtcttcc | cccttggcat | tgcttgggat | gctggcgctc | ctcgctgggt  | ggtggttttt  | 240 |
| ctctcgtaaa | aaaggccatg | tcagcagcca | tgatgagcag | cagggtggagg | ctgggtgctgt | 300 |
| gcagctgagg | gctgaccctg | ccatcaagga | acctctcccc | gtggaagacg  | tctgtcccaa  | 360 |

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| agtagtgtcc | acacccccca  | gtgtcacaga | gcctccagaa | aaggaactgt  | ccaccgtgag  | 420  |
| caagctgcct | gcagagcccc  | cagcattgct | ccagacacac | ccaccttgcc  | gaagatcaga  | 480  |
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| tgacagtaca | aagctggagc  | tagccctgac | aggtggtgaa | gccaaatcga  | ttctcttaga  | 600  |
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| gcaagattcc | cccttcagca  | gggtgccaa  | gaaggtccag | ccaggctacc  | ccgtagtccc  | 720  |
| cgagagaa   | cgtagctctg  | gggagagggc | aagagagaca | ggtggggccg  | aagggaactgg | 780  |
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| ggaattggag | aacagcaagg  | gccccagcct | ggcctcttta | gagggggaag  | aagataaggg  | 900  |
| gaagagcagc | tcattccagg  | tggtggggcc | agtgcaggag | gaagagtatg  | tagcagagaa  | 960  |
| gttgccaagt | aggttcacag  | agtcgggtca | cacagagctg | gcaaaggacg  | atgcggcgcc  | 1020 |
| agcaccccc  | gtcgcagacg  | ccaaagccca | ggatagaggt | gtcgaggggag | aactgggcaa  | 1080 |
| tgaggagagc | ttggatagaa  | atgaggaggg | cttggataga | aatgaggagg  | gcttggatag  | 1140 |
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| tctcaagaag | actgagagct  | tccaaaatgc | ccaggcaggc | tccaacccta  | agaaggtcga  | 1980 |
| cctcatcatc | tgggagatcg  | aggtgccaaa | gcacttagtc | ggtcggctaa  | ttggcaagca  | 2040 |
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| cccattgcct | tcactggcac  | tgcccttctc | gccgatgaca | tcctggctca  | tgctgcctga  | 2280 |

|             |             |             |             |             |             |      |
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| cgccccctggt | gcggacgggg  | cctgggtggcg | agcccaagtg  | gttgccctct  | acgaggagac  | 2520 |
| caacgaagtg  | gagattcgat  | acgtggacta  | cgcgggatat  | aagaggggtga | aagtagacgt  | 2580 |
| gctccggcaa  | atcagggtctg | actttgtcac  | cctgccgttt  | caggggagcag | aagtccttct  | 2640 |
| ggacagtggt  | atgccctgt   | cagacgatga  | ccagttttca  | ccggaagcag  | atgccgccat  | 2700 |
| gagcgagatg  | acggggaata  | cagcactgct  | tgctcaggtg  | acaagttaca  | gtccaactgg  | 2760 |
| tcttctctctg | attcagctgt  | ggagtgtggt  | tggagatgaa  | gtggtgttga  | taaacgggtc  | 2820 |
| cctgggtggag | cgaggccttg  | cccagtggtg  | agacagctac  | tacacaagcc  | tttgacccc   | 2880 |
| atgctgcttc  | ctgagagtct  | ttttttgcac  | tgttgaaatt  | gggcttgcca  | ctcaagtcaa  | 2940 |
| agatgaacat  | cgggaataaca | aacattgtcc  | tctccagaaa  | gtccttttct  | tatccatact  | 3000 |
| gtagtctctat | tgagaagaca  | tttcgtctct  | gagaaaaaag  | gatggaacta  | tgggttctct  | 3060 |
| tcgcaaagcc  | aaaggatagt  | gtttaacaag  | ccagctggct  | tatcctgggt  | ctcagctggt  | 3120 |
| taaaaaaaaa  | aaaaaaaaag  | aatagaaaca  | gtttcaacca  | gattgtccta  | ttccccctgt  | 3180 |
| tccattcccc  | tcttcttct   | tctatctct   | tccccggcaa  | aaaccaaaca  | aactggcaga  | 3240 |
| caggccaggg  | atgtatgttg  | cttgcttgag  | agggtttctt  | ttacttcaaa  | atctttcttc  | 3300 |
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| gttgatgata  | tttaaccagt  | ttttataaac  | ttcatttagg  | tctctaaaca  | cagacttttt  | 3420 |
| aaattgcaac  | tgtaaatatg  | aaatgggtcat | cacatctgac  | cttggtcagt  | ggggaggggga | 3480 |
| actggtatcc  | tgccaagcct  | ggttgtaatt  | tgtaaccatt  | ttctatttgt  | gcaaacctctg | 3540 |
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| ctcaagattc  | ttccagccac  | atgtcacctg  | taggtagaag  | taaactctgc  | agtcgacgtt  | 3660 |
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| tatggtagag  | actgtgatct  | gggaactttt  | tgctgtacaa  | atctgtttta  | aaaaaaaaaa  | 3780 |
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<210> 7

<211> 829

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_002818.2| proteasome (prosome, macropain) activator subunit 2



(PA28 beta) (PSME2), mRNA

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<210> 8

<211> 2974

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004363.1 carcinoembryonic antigen-related cell adhesion molecule 5 (CEACAM5), mRNA

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tctccctcgg cccctcccca cagatggtgc atcccttggc agaggctcct gtcacagcc 180
tcacttctaa ccttctggaa cccgccacc actgccaagc tcactattga atccacgccg 240
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cccaatgcat cctgtctgat ccagaacatc atccagaatg acacaggatt ctacacccta 480
cacgtcataa agtcagatct tgtgaatgaa gaagcaactg gccagttccg ggtatacccg 540
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| gtggccttca | cctgtgaacc | tgagactcag | gacgcaacct | acctgtggtg | ggttaacaat | 660  |
| cagagcctcc | cggtcagtcc | caggctgcag | ctgtccaatg | gcaacaggac | cctcactcta | 720  |
| ttcaatgtca | caagaaatga | cacagcaagc | tacaaatgtg | aaaccagaa  | cccagtgagt | 780  |
| gccaggcgca | gtgattcagt | catcctgaat | gtcctctatg | gccccgatgc | ccccaccatt | 840  |
| tcccctctaa | acacatctta | cagatcaggg | gaaaatctga | acctctcctg | ccacgcagcc | 900  |
| tctaaccac  | ctgcacagta | ctcttggttt | gtcaatggga | ctttccagca | atccacccaa | 960  |
| gagctcttta | tcccaacat  | cactgtgaat | aatagtggat | cctatacgtg | ccaagcccat | 1020 |
| aactcagaca | ctggcctcaa | taggaccaca | gtcacgcaga | tcacagtcta | tgcagagcca | 1080 |
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| ctcccggta  | gtcccaggct | gcagctgtcc | aatgacaaca | ggacctcac  | tctactcagt | 1260 |
| gtcacaagga | atgatgtagg | accctatgag | tgtggaatcc | agaacgaatt | aagtgttgac | 1320 |
| cacagcgacc | cagtcacctc | gaatgtctc  | tatggcccag | acgacccac  | catttcccc  | 1380 |
| tcatacact  | attaccgtcc | aggggtgaac | ctcagcctct | cctgccatgc | agcctctaac | 1440 |
| ccacctgcac | agtattcttg | gctgattgat | gggaacatcc | agcaacacac | acaagagctc | 1500 |
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| ccctccatct | ccagcaacaa | ctccaaacc  | gtggaggaca | aggatgctgt | ggccttcacc | 1680 |
| tgtgaacctg | aggctcagaa | cacaacctac | ctgtgggtgg | taaatggtca | gagcctccca | 1740 |
| gtcagtccca | ggctgcagct | gtccaatggc | aacaggacc  | tcactctatt | caatgtcaca | 1800 |
| agaaatgacg | caagagccta | tgtatgtgga | atccagaact | cagtgtgtgc | aaaccgcagt | 1860 |
| gaccagtgca | ccctggatgt | cctctatggg | ccggacacc  | ccatcatttc | ccccccagac | 1920 |
| tcgtcttacc | tttcgggagc | gaacctcaac | ctctcctgcc | actcggcctc | taaccatcc  | 1980 |
| ccgcagtatt | cttggcgtat | caatgggata | ccgcagcaac | acacacaagt | tctctttatc | 2040 |
| gccaaaatca | cgccaaataa | taacgggacc | tatgcctgtt | ttgtctctaa | cttggctact | 2100 |
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| agactctgac | cagagatcga | gaccatccta | gccaacatcg | tgaaacccca | tctctactaa | 2400 |
| aaatacaaaa | atgagctggg | cttgggtggc | cgcacctgta | gtcccagtta | ctcgggaggc | 2460 |

|   |      |
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| actgcactcc agtctggcaa cagagcaaga ctccatctca aaaagaaaag aaaagaagac | 2580 |
| tctgacctgt actcttgaat acaagtttct gataccactg cactgtctga gaatttccaa | 2640 |
| aactttaatg aactaactga cagcttcatg aaactgtcca ccaagatcaa gcagagaaaa | 2700 |
| taattaattt catgggacta aatgaactaa tgaggattgc tgattcttta aatgtcttgt | 2760 |
| ttcccagatt tcaggaaact tttttcttt taagctatcc actcttacag caatttgata  | 2820 |
| aaatatactt ttgtgaacaa aaattgagac atttacattt tctccctatg tggctgcctc | 2880 |
| agacttggga aactattcat gaatatattt attgtatggt aatatagtta ttgcacaagt | 2940 |
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<210> 9

<211> 5028

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005766.2| FERM, RhoGEF (ARHGEF) and pleckstrin domain protein 1 (chondrocyte-derived) (FARP1), transcript variant 1, mRNA

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| ccgccccgcg ccacctttga tggctcggac ctcagccggc caccgccagc cctgctcgcg | 180 |
| cgccccgccc gccgccgcc gcgggtatta atagccggcg ccgccgcgcc ctcggccgcc  | 240 |
| gggggcttgg gagccgccga tccgggagcc cgagccggga gaggagccg ccgcagccgc  | 300 |
| cggcgtgtg gagatatctt ctaagccgct ttcattcatg gagaaataga gcagaggccg  | 360 |
| acccaggat cagcactggg ggcggcgga aattcgggga tcagtacctt ggaacgtgga   | 420 |
| cagaagccgc ccccaacacc ttcaggaaaa ctcgtgtcca tcaaatacca gatgctggat | 480 |
| gacaccagg aggcatttga agttccacaa agagctcctg ggaaggtgct gctggatgca  | 540 |
| gtttgcaacc acctcaacct cgtggaaggt gactattttg gcctcgagtt tcttgatcac | 600 |
| aaaaagatca cgtgtgtggc ggaatctcta aaaccattg tgaaacagat tagaaggcca  | 660 |
| aagcacgttg ttgttaagtt tgttgtgaaa ttctttccgc ctgaccacac acaactccaa | 720 |
| gaagaactca caaggtacct gttcgcgctg caggtgaagc aggacttggc tcaaggcagg | 780 |
| ttgacgtgta atgacaccag cgcagctctc ttgatttcac acattgtgca atctgagatt | 840 |
| ggggattttg atgaagcctt ggacagagag cacttagcaa aaaataaata catacctcag | 900 |

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| attctagtgt | ttcagggttt  | actaagatc  | aatgccttca | actgggcca   | ggtgcggaag | 1140 |
| ctgagcttca | agaggaagcg  | ctttctcatc | aagctccggc | cagatgcca   | tagtgcgtag | 1200 |
| caggatacct | tggaaattcct | gatggccagt | cgggatttct | gcaagtcctt  | ctggaaaatc | 1260 |
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| gactatgtta | aagaaggagg  | acataagaag | gtgcagtttg | aaaggaaaca  | cagcaagatt | 1440 |
| cattctatcc | ggagccttgc  | ttcacagcct | acagaactga | attcggaaagt | gctggagcag | 1500 |
| tctcagcaga | gcaccagcct  | tacatttgga | gaaggtgccg | aatctccagg  | gggccagagc | 1560 |
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| ccaagcacag | gtcccttgac  | tggcagtcct | cacctttccg | agctgtctgt  | gaactcgtag | 1800 |
| gggggagtg  | cccctgccaa  | cgtagacttg | tctcccaacc | tgagccccga  | caccaagcag | 1860 |
| gcctctccct | tgatcagccc  | gctgctgaat | gaccaggcct | gccccgggac  | ggacgatgag | 1920 |
| gatgagggcc | ggaggaagag  | attcccaact | gataaagcgt | acttcatagc  | taaggaagt  | 1980 |
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| actaacaagg | ggaataaaaa | tacctcacgc | cacaatccag | catattgatg | ttttaaggca | 4920 |
| aaacaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | 4980 |
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<211> 7787

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_012334.1| myosin X (MYO10), mRNA

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| agtcggagcy  | gactcggcg agtccgggac tgcgctggaa caatggataa cttcttcacc 240    |
| gagggaaacac | gggtctggct gagagaaaat gggcagcatt ttccaagtac tgtaaatcc 300    |
| tgtgcagaag  | gcatcgtcgt cttccggaca gactatggtc aggtattcac ttacaagcag 360   |
| agcacaatta  | cccaccagaa ggtgactgct atgcacccca cgaacgagga gggcgtggat 420   |
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| ctggcagggc  | tggaacatga agaaagagaa gaattttatt tatctacgcc agaaaactac 1080  |
| cactacttga  | atcagtcctg atgtgtagaa gacaagacaa tcagtgaacca ggaatccttt 1140 |
| aggggaagtta | ttacggcaat ggacgtgatg cagttcagca aggaggaagt tcgggaagtg 1200  |

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| aatgaagaaa | gccattttcc | tcaagccaca | gacagcacct  | tattggagaa | gctacacagt  | 1800 |
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| aagcactatg | ctggagaggt | gcaatatgat | gtccgaggtg  | tcttgagaaa | gaacagagat  | 1920 |
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|             |             |             |            |             |             |      |
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| tacagctggc  | agatcctgac  | atgcctgagc  | tgcaccttc  | tgccgagtcg  | agggattctc  | 5160 |
| aagtatctca  | agttccatct  | gaaaaggata  | cgggaacagt | ttccaggaac  | cgagatggaa  | 5220 |
| aaatacgtc   | tcttcactta  | cgaatctctt  | aagaaaacca | aatgccgaga  | gtttgtgcct  | 5280 |
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| ttaatcatgg tttcatgagc attaaaaagc aaagggaaaa aggatgtgta atgggtgtaca | 7080 |
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| actaagtcta cccacacgaa aaaagaaatt tgccctgtcc ctttgtgtac aacctgcga   | 7740 |
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<211> 2033

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001533.1| heterogeneous nuclear ribonucleoprotein L (HNRPL), mRNA

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| gactgacaac gccggcgacc agcacggagg cggcgggcgt ggcggtggag gagccggggc | 180 |  |
| ggcggcgcg cggcgcggtg gggagaacta cgatgaccgg cacaaaacc ctcctcccc    | 240 |  |
| agttgtccac atcaggggcc tgattgacgg tgtggtgtaa gcagacctg tggaggcctt  | 300 |  |
| gcaggagttt ggaccatca gctatgtggt ggtaatgcct aaaaagagac aagcactggt  | 360 |  |
| ggagtttgaa gatgtgttgg gggcttgcaa cgcagtgaa tacgcagccg acaaccaa    | 420 |  |
| atacattgct ggtcaccgac cttttgtcaa ctactctacc agccagaaga tctccgcc   | 480 |  |
| tggggactcg gatgactccc ggagcgtgaa cagtgtgctt ctctttacca tcctgaacc  | 540 |  |
| catttattcg atcaccagc atgttcttta cactatctgt aatcctgtg gccctgtcca   | 600 |  |

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| aagtgccag   | cgggccaaag | cctctctcaa  | tggggctgat  | atctattctg | gctgttgac   | 720  |
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| ttgggactac  | acaacccca  | atctcagtgg  | acaagggtgac | cctggcgaca | accccaacaa  | 840  |
| acgccagagg  | cagccccctc | tcttgggaga  | tcaccccgca  | gaatatggag | ggccccacgg  | 900  |
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| gtatgggcac  | ccccccacc  | ctccccacc   | acccgagtat  | ggccctcacg | ccgacagccc  | 1080 |
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| cttctgctta  | tatggcaatg | tggagaagg   | gaaattcatg  | aaaagcaagc | cgggggcccgc | 1200 |
| catggtggag  | atggctgatg | gtacgctgt   | agaccgggcc  | attaccaccc | tcaacaacaa  | 1260 |
| cttcagtgtt  | gggcagaagc | tgaatgtctg  | tgtctccaag  | cagccagcca | tcatgcctgg  | 1320 |
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| gacatttctc  | tttcctttat | gccatttttt  | gtttttgtta  | tttgcaaaag | atcttgtatt  | 1800 |
| cctttttttt  | tttttttttt | tttaaatgct  | aggttttag   | aggcttactt | aaccttaatg  | 1860 |
| gaaacgctgg  | aaatctgcag | ggggggggag  | aggggaactg  | ttatctccca | agattaacct  | 1920 |
| tcacttttaa  | aaaattattg | tacatgtgat  | tttttttttt  | cctgttcata | catttgtgct  | 1980 |
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<210> 12

<211> 3453

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001144.3| autocrine motility factor receptor (AMFR),  
transcript variant 1, mRNA

<400> 12

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|------------|-----------|------------|------------|------------|------------|----|

|            |            |            |             |            |            |      |
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| gcctcagcgg | cctggccctg | ctgggcacca | tcatacgcgc  | ctaccgcgcg | ctcagccagc | 180  |
| ccgaggccgg | ccccggcgag | ccggaccagc | taacggcctc  | gctgcagcct | gagccgccgg | 240  |
| cgccccccg  | gccgagcgcc | gggggacccc | gggcccgcga  | tgtggcccag | tacctgtctt | 300  |
| cagacagcct | cttcgtgtgg | gttctagtaa | ataccgcttg  | ctgtgttttg | atgttggtgg | 360  |
| ctaagctcat | ccagtgattt | gtgtttggcc | ctcttcgagt  | gagtgcgaga | cagcatctca | 420  |
| aagacaaatt | ttggaatttt | attttctaca | agttcatctt  | catctttggt | gtgctgaatg | 480  |
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| cgatgagcag | ccacggtcga | gtcctgtccc | tgttggttgc  | catgtgctt  | tcctgctgtg | 660  |
| gactggcggc | cgctgtctcc | atcacgggct | acaccacgg   | aatgcacacc | ttggctttca | 720  |
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| acacagactt | tgtcatggag | ctcactctcc | tgtccctgga  | cctcatgcac | catattcaca | 900  |
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| tggatgagaa | tttggttctt | gtagcagcag | ccgaaggagg  | acctcgctta | aaccaacaca | 1320 |
| atcacttctt | ccatttcgat | gggtctcggg | ttgcgagctg  | gctgccgagt | ttttcggttg | 1380 |
| aagtgtatga | caccaccaac | attcttggca | ttacgcaggc  | cagcaactcc | cagctcaatg | 1440 |
| caatggctca | tcagattcaa | gagatgtttc | cccaggttcc  | ataccatctg | gtactgcagg | 1500 |
| acctccagct | gacacgctca | gttgaaataa | caacagacaa  | tattttagaa | ggacggattc | 1560 |
| aagtaccttt | tcctacacag | cggtcagata | gcatcagacc  | tgatttgaa  | agtctctgtg | 1620 |
| aaaggccaag | cagtgaccag | gaagaggagg | aaacttctgc  | tcagaccgag | cgtgtgccac | 1680 |
| tggacctcag | tcctcgcttg | gaggagacgc | tggacttcgg  | cgaggtggaa | gtggagccca | 1740 |
| gtgagtgga  | agacttcgag | gctcgtggga | gccgcttctc  | caagtcgtct | gatgagagac | 1800 |
| agcgcagtct | ggtgcagcgt | aaggacgaac | tcctccagca  | agctcgcaaa | cgtttcttga | 1860 |
| acaaaagttc | tgaagatgat | gcggcctcag | agagcttcct  | cccctcgga  | ggtgcgtcct | 1920 |
| ctgaccccg  | gacctgcgt  | cgaaggatgc | tggctgccgc  | cgcggaacgg | aggcttcaga | 1980 |

|            |             |             |             |             |            |      |
|------------|-------------|-------------|-------------|-------------|------------|------|
| agcagcagac | ctcctagcgc  | tccttgcct   | tcctcagctg  | cctcctgcgc  | cctgtgccg  | 2040 |
| actgactgga | ggaggcctg   | cccaattctg  | cccgtccat   | ggaaaagcgg  | gcttgactgc | 2100 |
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| tcTTtTgaat | actTTtctatg | tgacatttct  | cttccctta   | gaaacactgc  | aaatTTtaac | 2220 |
| tgtaggtatg | atctcttctg  | gtgttgactg  | gactgcttgg  | ggTgggggac  | gatcaggagg | 2280 |
| aagtgagcag | tcgcctgcct  | gcagcaggca  | gcttctactc  | ctgcctcatg  | catacgtccc | 2340 |
| acaaatgcag | gtgtctctgag | caccacaccc  | agtgggaaga  | gtgtggggga  | ggcgcacagt | 2400 |
| gtgagcccg  | ccccacgtg   | tggggtaaca  | tctgttatca  | aactgctgtc  | gttTgtgtgg | 2460 |
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| gtgccccatg | ggTccccctc  | cctctcagca  | tttcttgtc   | ccgtctggac  | ctggggagtg | 2760 |
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| gcaaagataa | TTTatttcaa  | taaatctttc  | aaagcctta   | ccttgaaatg  | ctgttagtaa | 3360 |
| atttctgtga | TTTTTTTTTT  | taattgtttt  | tgctgagagc  | atagctattt  | gtttttattg | 3420 |
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<213> Homo sapiens

<220>

<223> NM\_013974.1| dimethylarginine dimethylaminohydrolase 2 (DDAH2), mRNA

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<210> 14

<211> 4180

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006291.2| tumor necrosis factor, alpha-induced protein 2 (TNFAIP2), mRNA

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| cagaggcctc | catgtcggag  | gcctcctctg  | aggacctggt | gccacccctg | gaggctgggg | 180  |
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| ccaaaggcct | ggccaatgtg  | ttctgcgtct  | tcaccaaagg | gaagaagaag | aagggtcagc | 300  |
| ccagctcagc | ggagcccgg   | gacgcagcgg  | ggtccaggca | ggggctggat | ggcccggccc | 360  |
| ccacagtgga | ggagctgaag  | gcggcgctgg  | agcgcgggca | gctggaggcg | gcgcggccgc | 420  |
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| tggtggcgga | gcaggagcgc  | gaggaccgcc  | aggcgggcgg | ggcgggggcg | gggacctcgg | 660  |
| ggctggcggc | cacgcgcccc  | cgcgctggc   | tgcaagtgtg | gcggcgcggc | gtggcggagg | 720  |
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| tcgcggccca | cctggcgcgc  | gtggcgcagt  | tcgagctgtg | cgagcgcgac | acctacatgc | 960  |
| tgctgctctg | ggtgcagaac  | ctctacccca  | atgacatcat | caacagcccc | aagctggtgg | 1020 |
| gtgagctgca | gggtatgggg  | ctcgggagcc  | tcctgcccc  | caggcagatc | cgactgtgg  | 1080 |
| aggccacatt | cctgtccagt  | gaggcgccca  | atgtgaggga | gttgatggac | cgagctctgg | 1140 |
| agctagaggc | acggcgctgg  | gctgaggatg  | tgcttcccca | gaggctggac | ggccactgcc | 1200 |
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| gcatcacgct | ggacttgggc  | tcacagataa  | agcgggtgct | gctggtggag | ctgcctgcgt | 1320 |
| tcctgaggag | ctaccagcgc  | gcctttaatg  | aatttctgga | gagaggcaag | cagctgacga | 1380 |
| attacagggc | caatgttatt  | gccaacatca  | acaactgcct | gtccttcctg | atgtccatgg | 1440 |
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| ctgacaccat | ccagcacttc  | tgacccagc   | acggctcccc | ggcgacctgg | ctgcagcctg | 1860 |
| ctctccctac | getggccgag  | atcattcgcc  | tcgaggaccc | cagtgccatc | aagattgagg | 1920 |
| tggccactta | tgccacctgc  | taccctgact  | tcagcaaagg | ccacctgagc | gctatcctgg | 1980 |

|            |            |             |            |             |             |      |
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| gcctcaccca | tctgcctct  | gcagcccagg  | gccgccgtga | gcgggattca  | gcaatggttg  | 2580 |
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| ttgggtccgt ccccttttcc cagggtactgc cttacaaagc tgtggccagg aagtggccgg  | 4020 |
| tataaaggat gcccaaggtc tttgtacgtg tgtaggagtt agcgtgtttg atattgttaa   | 4080 |
| tataataata attatttttt agagtactgc ttttgtatgt atgttgaaaca ggatccagggt | 4140 |
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<211> 2524

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000249.2| mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli) (MLH1), mRNA

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| atgtcgttcg tggcaggggt tattcggcgg ctggacgaga cagtggtgaa ccgcatcgcg  | 120  |
| gcgggggaag ttatccacg cccagctaata gctatcaag agatgattga gaactgttta   | 180  |
| gatgcaaaa ccacaagat tcaagtgtt gttaaagagg gaggcctgaa gttgattcag     | 240  |
| atccaagaca atggcaccgg gatcaggaaa gaagatctgg atattgtatg tgaaagggtc  | 300  |
| actactagta aactgcagtc ctttgaggat ttagccagta tttctaccta tggctttcga  | 360  |
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| gatggaaagt gtgcatacag agcaagttac tcagatggaa aactgaaagc cctccttaaa  | 480  |
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| ttcatcaacc atcgtctggt agaatacaact tccttgagaa aagccataga aacagtgtat | 900  |
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| cagaatgtgg atgttaatgt gcacccaca aagcatgaag ttacttcct gcacaggagg    | 1020 |
| agcatcctgg agcgggtgca gcagcacatc gagagcaagc tcctgggctc caattctctc  | 1080 |
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|   |      |
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| agcaaacccc tgtccagtcg gccccaggcc attgtcacag aggataagac agatatttct | 1320 |
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| aagagaggac ctacttccag caaccccaga aagagacatc gggaagattc tgatgtggaa | 1500 |
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| ccgctctttg accttgccat gcttgcccta gatagtccag agagtggctg gacagaggaa | 1860 |
| gatgggtcca aagaaggact tgctgaatac attgttgagt ttctgaagaa gaaggctgag | 1920 |
| atgcttgca actatttctc ttggaaatt gatgaggaag ggaacctgat tggattacc    | 1980 |
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| gccactgagg tgaattggga cgaagaaaag gaatgtttg aaagcctcag taaagaatgc  | 2100 |
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| agtggtgat atcaaatgtg ccaacataag tgttggtagc acttaagact tatacttgcc  | 2460 |
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<210> 16

<211> 1536

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001071.1| thymidylate synthetase (TYMS), mRNA

<400> 16

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|--|------|
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| ccgccgcacg gggagctgca gtacctgggg cagatccaac acatcctccg ctgcggcgctc | 240  |
| aggaaggacg accgcacggg caccggcacc ctgtcggtat tcggcatgca ggcgcgctac  | 300  |
| agcctgagag atgaattccc tctgctgaca accaaacgtg tgttctggaa ggggtgtttg  | 360  |
| gaggagtgtc tgtggtttat caagggatcc acaaatgcta aagagctgtc ttccaagggg  | 420  |
| gtgaaaatct gggatgccaa tggatcccg gactttttgg acagcctggg attctccacc   | 480  |
| agagaagaag gggacttggg cccagtttat ggctccagtg ggaggcattt tggggcagaa  | 540  |
| tacagagata tggaaatcaga ttattcagga cagggagttg accaactgca aagagtgtat | 600  |
| gacaccatca aaaccaaccg tgacgacaga agaatacatca tgtgcgcttg gaatccaaga | 660  |
| gatcttcctc tgatggcgct gcctccatgc catgccctct gccagttcta tgtggtgaac  | 720  |
| agtgagctgt cctgccagct gtaccagaga tcgggagaca tgggcctcgg tgtgcctttc  | 780  |
| aacatcgcca gctacgccct gctcacgtac atgattgcgc acatcacggg cctgaagcca  | 840  |
| ggtgacttta tacacacttt gggagatgca catatttacc tgaatcacat cgagccactg  | 900  |
| aaaattcagc ttcagcgaga acccagacct ttcccaaagc tcaggattct tcgaaaagtt  | 960  |
| gagaaaattg atgacttcaa agctgaagac tttcagattg aagggtacaa tccgcattca  | 1020 |
| actattaaaa tggaaatggc tgtttagggt gctttcaag gagcttgaa gatattgtca    | 1080 |
| gtctttaggg gttgggctgg atgccgaggt aaaagtcttt tttgctctaa aagaaaaagg  | 1140 |
| aactagggtca aaaatctgtc cgtgacctat cagtatttaa ttttaagga tgttgccact  | 1200 |
| ggcaaatgta actgtgccag ttctttccat aataaaaggc tttgagttaa ctactgagg   | 1260 |
| gtatctgaca atgctgaggt tatgaacaaa gtgaggagaa tgaaatgtat gtgctcttag  | 1320 |
| caaaaacatg tatgtgcatt tcaatcccac gtacttataa agaagggttg tgaatttcac  | 1380 |
| aagctatttt tggaaatatt ttagaatatt ttaagaattt cacaagctat tccctcaaat  | 1440 |
| ctgaggggagc tgagtaacac catcgatcat gatgtagagt gtggttatga actttatagt | 1500 |
| tgttttatat gttgctataa taaagaagtg ttctgc                            | 1536 |

<210> 17

<211> 2986

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000201.1| intercellular adhesion molecule 1 (CD54), human rhinovirus receptor (ICAM1), mRNA

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agcaatgtgc aagaagatag ccaaccaatg tgctattcaa actgcccctga tgggcagctca 360  
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ccctcttgcc agccagtggg caagaacctt accctacgct gccaggtgga ggggtgggca 480  
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|            |            |             |             |             |            |      |
|------------|------------|-------------|-------------|-------------|------------|------|
| ctgtagtac  | atgactaac  | caagaggaag  | gagcaagact  | caagacatga  | ttgatggatg | 1920 |
| ttaaagtcta | gcctgatgag | aggggaagtg  | gtgggggaga  | catagcccca  | ccatgaggac | 1980 |
| atacaactgg | gaaatactga | aacttgctgc  | ctattgggta  | tgctgaggcc  | cacagactta | 2040 |
| cagaagaagt | ggccctccat | agacatgtgt  | agcatcaaaa  | cacaaaggcc  | cacacttcct | 2100 |
| gacggatgcc | agcttgggca | ctgctgtcta  | ctgaccccaa  | cccttgatga  | tatgtattta | 2160 |
| ttcatttgtt | attttaccag | ctatttattg  | agtgtctttt  | atgtaggcta  | aatgaacata | 2220 |
| ggtctctggc | ctcacggagc | tcccagtcga  | tgctcacattc | aaggtcacca  | ggtacagttg | 2280 |
| tacaggttgt | acactgcagg | agagtgccctg | gcacaaaagat | caaatggggc  | tgggacttct | 2340 |
| cattggccaa | cctgcctttc | cccagaagga  | gtgatttttc  | tatcggcaca  | aaagcactat | 2400 |
| atggacttgt | aatggttcac | aggttcagag  | attaccacagt | gaggccttat  | tcctcccttc | 2460 |
| cccccaaac  | tgacaccttt | gttagccacc  | tccccacca   | catacatttc  | tgccagtgtt | 2520 |
| cacaatgaca | ctcagcggtc | atgtctggac  | atgagtgccc  | agggaaatag  | cccaagctat | 2580 |
| gccttgcctc | cttgcctgtg | ttgcatttca  | ctgggagctt  | gactattgc   | agctccagtt | 2640 |
| tcctgcagtg | atcagggtcc | tgcaagcagt  | ggggaagggg  | gccaaaggtat | tggaggactc | 2700 |
| cctccagct  | ttggaagggg | catccgcgtg  | tgtgtgtgtg  | tgatgtgtga  | gacaagctct | 2760 |
| cgctctgtca | cccaggctgg | agtgagctgg  | tgcaatcatg  | gttactgca   | gtcttgacct | 2820 |
| tttgggctca | agtgatcctc | ccacctcagc  | ctcctgagta  | gctgggacca  | taggctcaca | 2880 |
| acaccacacc | tggcaaat   | gatttttttt  | ttttttttca  | gagacggggg  | ctcgcaacat | 2940 |
| tgccagact  | tcctttgtgt | tagttaataa  | agctttctca  | actgcc      |            | 2986 |

<210> 18

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004492.1| general transcription factor IIA, 2 (12kD subunit) (GTF2A2), mRNA

|            |             |            |            |            |            |     |
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| <400> 18   |             |            |            |            |            |     |
| cgagctggag | agggtggcgg  | agaagtagga | acctcctgcc | gggctcgtgg | cggcttctgt | 60  |
| ccgctccgcg | gaggggaagcg | ccttccccac | aggacatcaa | tgcaagcttg | aataagaaaa | 120 |
| acaaattctt | cctcctaagc  | catggcatat | cagttataca | gaaatactac | tttgggaaac | 180 |
| agtcttcagg | agagcctaga  | tgagctcata | cagtctcaac | agatcaccac | ccaacttgcc | 240 |
| cttcaagttc | tacttcagtt  | tgataaggct | ataaatgcag | cactggctca | gagggtcagg | 300 |
| aacagagtca | atttcagggg  | ctctctaata | acgtacagat | tctgcgataa | tgtgtggact | 360 |

|  |     |
|--|-----|
| tttgactga atgatgtga attcagagag gtgacagaac ttattaaagt ggataaagt     | 420 |
| aaaaattgtag cctgtgatgg taaaaatact ggctccaata ctacagaatg aatagaaaaa | 480 |
| atatgacttt ttacaccat cttctgttat tcattgcttt tgaagagaag catagaagag   | 540 |
| actttttatt tattctagaa ttgcagaaat gactacactg tgctatacca gagaattcca  | 600 |
| gtagaagaa acttgtaact ctgtagcctc ttacatcacc ttattatac agcatgaaaa    | 660 |
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| tcattttaaa actctg  | 736 |

<210> 19

<211> 6401

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004850.3| Rho-associated, coiled-coil containing protein kinase 2 (ROCK2), mRNA

|  |      |
|--|------|
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| ggcttcagcc tcccggggcc ccagagggcg gggcgggtccg ggccgcggcg gtggcgggcg | 120  |
| cacttcctg ctcccgcccg aggactcctg cgggcactcg ctgaggacca gcggaccggc   | 180  |
| ggcgcgaaatc tgactgaggg gcgggggacgc cgtctgttcc ccgccgtcc cggcagggcc | 240  |
| gggccgggct gggccgggct gggccgggcg ggcctctggg agcagccccc aggcggggga  | 300  |
| ccgccttgga gacccgaagc cggagctaga ggcaggcggt gggccggggt ggagtcccg   | 360  |
| ccggagctgg tggttcgggg gcggtgctag gccccgaggg tcggggacct gagcgcgagg  | 420  |
| agcctgagtg cgggtccagc ggtggcgga tgagccggcc cccgccgacg gggaaaatgc   | 480  |
| ccggcgcccc cgagaccgcg ccgggggacg gggcaggcgc gagccgcag aggaagctgg   | 540  |
| aggcgctgat ccgagacctc cgctccccc tcaactgga gagcttgctg gatgcttaa     | 600  |
| attccttggt ccttgattta gattttcctg ctttgaggaa aaacaagaac atagataatt  | 660  |
| ttttaaatag atatgagaaa attgtgaaaa aaatcagagg tctacagatg aaggcagaag  | 720  |
| actatgatgt tgtaaaagt attggaagag gtgcttttgg tgaagtgcag ttggttcgtc   | 780  |
| acaagcatc gcagaagggt tatgctatga agcttcctag taagtttgaa atgataaaaa   | 840  |
| gatcagattc tgcctttttt tgggaagaaa gagatattat ggcctttgcc aatagccct   | 900  |
| gggtggttca gctttttat gcctttcaag atgatatgta tctgtacatg gtaattggagt  | 960  |
| acatgcctgg tggagacctt gtaaacctta tgagtaatta tgatgtgcct gaaaaatggg  | 1020 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ccaaatttta  | actgctgaa   | gttgttcttg  | ctctggatgc | aatacactcc  | atgggtttaa  | 1080 |
| tacacagaga  | tgtgaagcct  | gacaacatgc  | tcttggataa | acatggacat  | ctaaatttag  | 1140 |
| cagatttttg  | cacgtgtatg  | aagatggatg  | aaacaggcat | ggtacattgt  | gatacagcag  | 1200 |
| ttggaacacc  | ggattatata  | tcacctgagg  | ttctgaaatc | acaagggggg  | gatggtttct  | 1260 |
| atgggcgaga  | atgtgattgg  | tggtctgtag  | gtgttttctt | ttatgagatg  | ctagtggggg  | 1320 |
| atactccatt  | ttatgcggat  | tcacttgtag  | gaacatatag | caaaattatg  | gatcataaga  | 1380 |
| attcactgtg  | tttccctgaa  | gatgcagaaa  | tttccaaaca | tgcaagaat   | ctcatctgtg  | 1440 |
| ctttcttaac  | agatagggag  | gtacgacttg  | ggagaaatgg | ggtggaagaa  | atcagacagc  | 1500 |
| atcctttctt  | taagaatgat  | cagtggcatt  | gggataacat | aagagaaacg  | cgagctcctg  | 1560 |
| tagtacctga  | actcagcagt  | gacatagaca  | gcagcaattt | cgatgacatt  | gaagatgaca  | 1620 |
| aaggagatgt  | agaacacttc  | ccaattccta  | aagcttttgt | tggaatcag   | ctgcctttca  | 1680 |
| tcggatttac  | ctactataga  | gaaaatttat  | tattaagtga | ctctccattc  | tgtagagaaa  | 1740 |
| ctgattccat  | acaatcaagg  | aaaaatgaag  | aaagtcaaga | gattcagaaa  | aaactgtata  | 1800 |
| cattagaaga  | acatcttagc  | aatgagatgc  | aagcacaaga | ggaactggaa  | cagaagtgca  | 1860 |
| aatctgttaa  | tactcgccta  | gaaaaaacag  | caaaggagct | agaagaggag  | attaccttac  | 1920 |
| ggaaaagtgt  | ggaatcacga  | ttaagacagt  | tagaaagaga | aaagcgctt   | cttcagcaca  | 1980 |
| aaaatgcaga  | atatcagagg  | aaagctgac   | atgaagcaga | caaaaaacga  | aatttggaaa  | 2040 |
| atgatgttaa  | cagcttaaaa  | gatcaacttg  | aagatttgaa | aaaaagaaat  | caaaactctc  | 2100 |
| aaatatccac  | tgagaaagtgt | aatcaactcc  | agagacaact | ggatgaaacc  | aatgctttac  | 2160 |
| tgcgaaacaga | gtctgatact  | gcagcccggt  | taaggaaaac | ccaggcgaaa  | agttcaaaac  | 2220 |
| agattcagca  | gctggaatct  | aacaatagag  | atctacaaga | taaaactgc   | ctgctggaga  | 2280 |
| ctgccaagtt  | aaaacttgaa  | aaggaattta  | tcaatcttca | gtcagctcta  | gaatctgaaa  | 2340 |
| ggagggatcg  | aaccttagga  | tcagagataa  | ttaatgattt | acaaggtaga  | atatgtggcc  | 2400 |
| tagaagaaga  | tttaaagaac  | ggcaaaatct  | tactagcgaa | agtagaactg  | gagaagagac  | 2460 |
| aacttcagga  | gagatttact  | gatttggaaa  | aggaaaaaag | caacatggaa  | atagatatga  | 2520 |
| cataccaact  | aaaagtata   | cagcagagcc  | tagaacaaga | agaagctgaa  | cataaggcca  | 2580 |
| caaaggcacg  | actagcagat  | aaaaataaga  | tctatgagtc | catcgaaagaa | gccaaatcag  | 2640 |
| aagccatgaa  | agaatggagg  | aagaagctct  | tgagggaag  | aactttaaaa  | cagaagtggtg | 2700 |
| agaacctatt  | gctagaagct  | gagaaaaagat | gttctctatt | agactgtgac  | ctcaaacagt  | 2760 |
| cacagcagaa  | aataaatgag  | ctccttaaac  | agaagatgt  | gctaattgag  | gatgttagaa  | 2820 |
| acctgacatt  | aaaaatagag  | caagaaactc  | agaagcgctg | ccttacacaa  | aatgacctga  | 2880 |
| agatgcaaac  | acaacaggtt  | aacacactaa  | aatgtcaga  | aaagcagtta  | aagcaagaaa  | 2940 |

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| ataaccatct  | catggaatg  | aaatgaact   | tggaaaaaca | aatgctgaa   | cttcgaaaaag | 3000 |
| aacgtcagga  | tgcataggg  | caaatgaaag  | agctccagga | tcagctcgaa  | gcagaacagt  | 3060 |
| attttctaac  | cctttataaa | acacaagtta  | gggagcttaa | agaagaatgt  | gaagaaaaga  | 3120 |
| ccaaacttgg  | taagaattg  | cagcagaaga  | aacaggaatt | acaggatgaa  | ggggactctt  | 3180 |
| tggtgcccc   | actggagatc | accttgacca  | aagcagattc | tgagcaactg  | gctcgttcaa  | 3240 |
| ttgctgaaga  | acaatatctt | gatttggaaa  | aagagaagat | catgaaagag  | ctggagatca  | 3300 |
| aagagatgat  | ggctagacac | aaacaggaac  | ttacggaaaa | agatgctaca  | attgcttctc  | 3360 |
| ttgaggaaac  | taataggaca | ctaactagt   | atgttgccaa | tcttgcaaat  | gagaaagaag  | 3420 |
| aattaataaa  | caaattgaaa | gatgttcaag  | agcaactgtc | aagattgaaa  | gatgaagaaa  | 3480 |
| taagcgagc   | agctattaaa | gcacagttt   | agaagcagct | attaacagaa  | agaacactca  | 3540 |
| aaactcaagc  | tgtgaataag | ttggctgaga  | tcataaatcg | aaaagaacct  | gtcaagcggt  | 3600 |
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| atagtctcag  | tataggcagt | ggaccagggg  | atgctgaggc | agatgatggg  | tttccagaat  | 3900 |
| caagattaga  | aggatggctt | tcattgcctg  | tacgaaacaa | actaagaaa   | tttggatggg  | 3960 |
| ttaaaaagta  | tgtgattgta | agcagtaaga  | agattctttt | ctatgacagt  | gaacaagata  | 4020 |
| aagaacaatc  | caatccttac | atgggttttag | atatagacaa | gttatttcat  | gtccgaccag  | 4080 |
| ttacacagac  | agatgtgtat | agagcagatg  | ctaaagaaat | tccaaggata  | ttccagattc  | 4140 |
| tgtatgccaa  | tgaaggagaa | agtaagaagg  | aacaagaatt | tccagtggag  | ccagttggag  | 4200 |
| aaaaatctaa  | ttatatattg | cacaagggac  | atgagtttat | tcctactctt  | tatcatttcc  | 4260 |
| caaccaactg  | tgaggcttgt | atgaagcccc  | tgtggcacat | gtttaagcct  | cctcctgctt  | 4320 |
| tgagtgccg   | ccgttgccat | attaagtgtc  | ataaagatca | tatggacaaa  | aaggaggaga  | 4380 |
| ttatagcacc  | ttgcaaagta | tattatgata  | tttcaacggc | aaagaatctg  | ttattactag  | 4440 |
| caaatcttac  | agaagagcag | cagaagtggg  | ttatgcgttt | ggtgaaaaag  | atacctaaaa  | 4500 |
| agccccagc   | tccagaccct | ttgtcccgat  | catctcctag | aacttcaatg  | aagatacagc  | 4560 |
| aaaaccagtc  | tattagacgg | ccaagtcgac  | agcttgcccc | aaacaaacct  | agctaactgc  | 4620 |
| cttctatgaa  | agcagtcatt | attcaaggtg  | atcgatttct | tccagtgaag  | acaagactga  | 4680 |
| aatatgatgg  | cccaaaattt | attaaaaagc  | tatatatttc | tgagagactg  | atacatcac   | 4740 |
| tcatacatat  | atgtgttccc | cttttccctg  | taataataat | tacaaatctg  | ggctcctttg  | 4800 |
| aagcaacag   | ttgaaccaac | aatgattggt  | tgatagacta | aggatatatg  | caactcttcc  | 4860 |



|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| agacttttcc | ataaagctct | ctcggcagtc | gctcacacta | caatgcacac  | aaggattgag | 4920 |
| aagagttaaa | ggctaagaa  | aacatctttt | ctagcttcaa | cagagagggt  | tcaccagcac | 4980 |
| atttaccaga | agaatctggg | aatggattcc | actacagtga | tattgactgc  | atctttaaga | 5040 |
| agtgaccatt | atactgtgta | tatatatata | aacacacaca | catatatata  | tatatatata | 5100 |
| gtactcta   | actgcaagaa | ggttttttaa | acttcccact | ttatttttta  | tacacattaa | 5160 |
| tcagatatca | ttacttgctg | cagttgcaac | tatgcacttg | tataaagcca  | taatgttgga | 5220 |
| gtttatatca | ctcattctcg | tgtacctgat | ggaagttgca | tgttcattgt  | taagcagtta | 5280 |
| ctgtaacaag | aagtttaaa  | ttaattatat | cagtttccta | atgcttcattg | ataggcaact | 5340 |
| ttacccattt | tgaatgcctt | aatttaattt | ttttcaaagt | ctcagccctg  | tctgtattaa | 5400 |
| aaaacaaaa  | aagcgtttac | cagctcttag | gatgtaaact | agctttgtgg  | aagataaatc | 5460 |
| gtgcactatt | tttacacata | aatagttata | tcaatgtcag | cctattttga  | ttacaaatg  | 5520 |
| tttttaaagt | attattggtt | atagaaacaa | taatggatgg | tgttggaact  | aatatatcct | 5580 |
| tgatgtctgt | ctattattca | ttcaactctt | tttacagacc | tcagtattag  | tctgtgacta | 5640 |
| caaaatattt | tatttgcttt | aaatttgctg | gctaccctag | atgtgttttt  | attcctggta | 5700 |
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| tcacctgagg | tgaggagtgc | aagaccagcc | tgcccaacat | agtgaaaact  | cgtctctacc | 6240 |
| aatatacaaa | aattagccgg | gcatgatggt | ggtggcctgt | aatcccagct  | acttgggagg | 6300 |
| ctgagacagg | agaatcgctt | gaacccagga | gacggtggtt | gcagtgagcg  | aagatcgagc | 6360 |
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<210> 20

<211> 1556

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005783.3| thioredoxin domain containing 9 (TXNDC9), mRNA

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<210> 21

<211> 1276

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003581.1| NCK adaptor protein 2 (NCK2), mRNA

<400> 21

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<210> 22

<211> 1577

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006214.2| phytanoyl-CoA hydroxylase (Refsum disease)  
(PHYH), mRNA

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<210> 23

<211> 3060

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004739.2| metastasis-associated gene family, member 2 (MTA2), mRNA

<400> 23

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| cagccaaagga | gggcccgcgc | acggccttat | gctcctatca | atgccaatgc  | catcaaagca | 1860 |
| gagtgctcca  | ttcgacttcc | taaggccgcc | aagactccat | tgaagattca  | ccctctggtg | 1920 |
| cggctgcccc  | tggcaactat | cgtaaaagat | ctggtggccc | aggcaccctc  | gaaacacaaa | 1980 |
| acacctcggg  | gtaccaagac | accgatcaac | agaaaccagc | tgtccagaa   | ccggggactg | 2040 |
| gggggcatta  | tgtgaaacg  | ggcctatgag | actatggcag | gggcaggggg  | tcctttctct | 2100 |
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<210> 24

<211> 2407

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001091.1| amiloride binding protein 1 (amine oxidase (copper-containing)) (ABP1), mRNA

<400> 24

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| tggagcgaga | gatgccggcc | ctgggctggg | ccgtggctgc | catctgatg  | ctgcagacgg | 120 |
| ccatggcgga | gccctccccg | gggactctgc | ccaggaaggc | aggggtgttt | tcagacctaa | 180 |

|            |             |             |            |            |             |      |
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| cccgtgccgt | catcttcttt  | ggtgaccagg  | agcatcccaa | tgtcaccgag | tttgcgtggt  | 420  |
| ggcccttgcc | agggccctgc  | tacatgcgag  | cactgtcccc | caggcctggg | taccagtctt  | 480  |
| cctgggcatc | gaggcccatc  | tccacagcag  | agtatgccct | cctctaccac | accctgcagg  | 540  |
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<210> 25

<211> 1094

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000712.3| biliverdin reductase A (BLVRA), mRNA

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| tggttggtgt tggccgagcc ggctccgtgc ggatgagga cttgcggaat ccacacctt    | 180  |
| cctcagcggt cctgaacctg attggcttcg tgtcgagaag ggagctcggg agcattgatg  | 240  |
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| cagctggccc gttggaagaa gagcgggttg gcttccctgc attcagcggc atctctcgcc  | 600  |
| tgacctggct ggtctccctt tttggggagc tttctcttgt gtctgccact ttggaagagc  | 660  |
| gaaaggaaga tcagtatatg aaaatgacag tgtgtctgga gacagagaag aaaagtccac  | 720  |
| tgatcatgga tgaagaaaaa ggacctggtc taaaacgaaa cagatatatta agcttccatt | 780  |
| tcaagctctg gtccttggag aatgtgccaa atgtaggagt gaataagaac atatttctga  | 840  |
| aagatcaaaa tatatttgtc cagaaactct tgggccagtt ctctgagaag gaactggctg  | 900  |
| ctgaaaagaa acgcatcctg cactgcctgg ggcttgaga agaaatccag aaatattgct   | 960  |
| gttcaaggaa gtaagaggag gaggtgatgt agcacttcca agatggcacc agcatttggt  | 1020 |
| tcttctcaag agttgaccat tatctctatt cttaaaatta aacatgttgg ggaacaaga   | 1080 |



aaaaaaaaaa aaaa

1094

<210> 26

<211> 5546

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000933.2| phospholipase C, beta 4 (PLCB4), transcript  
variant 1, mRNA

<400> 26

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| aggaaaagac  | aatttctctc | tgattcagaa | tcctgaaaat | gtgatctccc  | ttaaaaagag | 60   |
| gacagtgtcg  | ctgtgagtgt | gacgaagtgg | acatcacctg | cagtcagtcc  | agagctgccc | 120  |
| agtcttgaat  | ataatcatgg | ccaaacctta | tgaatttaac | tggcagaagg  | aagttccctc | 180  |
| ctttttgcaa  | gaaggaacag | tttttgacag | atacaggagg | gaatcctttg  | tgtttgaacc | 240  |
| caactgcctc  | ttcaaagtgg | atgagtttgg | cttctttctg | acatggagaa  | gtgaaggcaa | 300  |
| ggaagacag   | gtgctagaat | gctccctcat | caacagtatt | cggtcgggag  | ccataccaaa | 360  |
| ggatcccaaa  | atcttggctg | ctcttgaagc | tgttggaaaa | tcagaaaaatg | atctggaagg | 420  |
| gcgtagatgt  | tgtgtctgca | gtggcacaga | tctagtgaac | attagtttta  | cctacatggt | 480  |
| ggctgaaaat  | ccagaagtaa | ctaagcaatg | ggtagaaggc | ctgagatcaa  | tcatacacaa | 540  |
| cttcaggggc  | aacaacgtca | gtccaatgac | atgcctcaag | aaacactgga  | tgaaattggc | 600  |
| atttatgacc  | aacacaaatg | gtaaaattcc | agttaggagt | attactagaa  | catttgcatt | 660  |
| gggaaaaaca  | gaaaagggtg | tctttcaagc | actcaaggag | ttaggtcttc  | ccagtggaaa | 720  |
| gaatgatgaa  | attgagccca | cagcattttc | ttatgaaaag | ttctatgaac  | tgacacaaaa | 780  |
| gattttgtct  | cggacagata | tagaagatct | tttcaaaaaa | atcaatggag  | acaaaactga | 840  |
| ttatttaacg  | gtagaccaat | tagtgagctt | tctaataaga | catcaacgag  | atcctcgatt | 900  |
| gaatgaat    | ttatttccat | tttatgatgc | caaaagggca | atgcagatca  | ttgagatgta | 960  |
| tgaacctgat  | gaagatttga | agaaaaaagg | ccttatatca | agtgatgggt  | tttgcagata | 1020 |
| tctgatgtca  | gatgaaaacg | ccccagtctt | cctagatcgt | ttagaacttt  | accaagaaat | 1080 |
| ggaccatctc  | ctggctcact | acttcatcag | ttcttcccat | aacacttatc  | tcactggcag | 1140 |
| acagttcggc  | gggaagtctt | cggtagaaat | gtacagacag | gttctcctgg  | ctggttgcag | 1200 |
| atgtgttgaa  | cttgactgct | gggatggaaa | aggatgaagc | caagaaccaa  | taataactca | 1260 |
| tggaaaagca  | atgtgtacag | atatcctttt | taaggatgta | attcaagcca  | tcaaggaaac | 1320 |
| tgcatattgtc | acatcagaat | atcctgtaat | tctctccttt | gaaaatcact  | gcagcaataa | 1380 |
| tcaacagtac  | aagatgtcca | aatattgcga | agatctat   | ggggatctcc  | tgttgaaaca | 1440 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| agcacttgaa | tcacatccac  | ttgaaccagg | cagggctttg | ccatcccca  | atgacctcaa | 1500 |
| aagaaaaata | ctcataaaaa  | acaagcggct | gaaacctgaa | gttgaaaaaa | aacagctgga | 1560 |
| agctttgaga | agcatgatgg  | aagctggaga | atctgcctcc | ccagcaaaca | tcttagagga | 1620 |
| cgataatgaa | gaggagatcg  | aaagtgctga | ccaagaggag | gaagctcacc | ccgaattcaa | 1680 |
| atttgaaat  | gaactttctg  | ctgatgactt | gggtcacaa  | gaagctgttg | caaatagcgt | 1740 |
| caagaagggc | ctggctcactg | tagaagatga | gcaggcgtgg | atggcatctt | ataaatatgt | 1800 |
| agggtgtacc | actaatatcc  | atccatattt | gtccacaatg | atcaactacg | cccagcctgt | 1860 |
| aaagtttcaa | ggtttccatg  | tggcagaaga | acgcaatatt | cattataaca | tgtcttcttt | 1920 |
| taatgaatca | gtcggctctg  | gctacttgaa | gacacatgca | attgaatttg | tcaattataa | 1980 |
| caaacggcaa | atgagtcgca  | tttaccacca | gggaggccga | gtcgattcca | gtaattacat | 2040 |
| gcctcagatt | tcttggaacg  | ctggctgcca | gatggtttca | ctgaactatc | aaaccccaga | 2100 |
| tttagcgatg | caattgaatc  | agggaaaatt | tgagtataat | ggatcgtgcg | ggtaccttct | 2160 |
| caaaccagat | ttcatgaggc  | ggcctgatcg | aacatttgac | cccttctctg | aaactcctgt | 2220 |
| tgatggtgtt | attgcagcca  | cttgctcagt | gcaggttata | tcaggtcaat | tcttatcaga | 2280 |
| taagaaaatt | ggcacctacg  | tagaggtgga | tatgtatggg | ttgccactg  | acaccatacg | 2340 |
| taaggaattc | cgaactcgca  | tggttatgaa | taatggactc | aatccagttt | acaatgaaga | 2400 |
| gtcatttcta | tttcggaagg  | tgatcctgcc | ggacctggct | gtcttgagaa | tagctgtgta | 2460 |
| tgatgataac | aacaagctga  | ttggccagag | gatcctcccg | cttgatggcc | tcgaagccgg | 2520 |
| atatcgacac | atttcccttc  | gaaatgaggg | aaataaacca | ttatcactac | caacaatttt | 2580 |
| ctgcaatatt | gttcttataa  | catatgtgcc | tgatggattt | ggagatatcg | tggatgcttt | 2640 |
| atcagatcca | aagaaatttc  | tctcaattac | agaaaagaga | gcagacaaaa | tgagagctat | 2700 |
| gggcattgaa | actagtgcac  | tagccgacgt | gcccgatgac | acttccaaaa | atgacaagaa | 2760 |
| aggaaaggcc | aacaccgcca  | aagcaaatgt | gacctctcag | agtagctctg | agctcagacc | 2820 |
| aaccaccacg | gctgcctctg  | cctctggtgt | ggaagccaag | aaaggtattg | aacttatccc | 2880 |
| tcaagtaagg | atagaagact  | taaagcagat | gaaggcttac | ttgaagcatt | taaagaaaca | 2940 |
| gcagaaggag | ctaatttctt  | taaagaagaa | acatgcaaa  | gaacacagta | ccatgcagaa | 3000 |
| gttactactg | acgcaagtgt  | acaaaattgt | ggcacagtat | gacaagagaa | agtcgactca | 3060 |
| tgagaaaatc | ctagagaagg  | caatgaagaa | gaagggggga | agtaattgtc | tcgaaatgaa | 3120 |
| aaaagaaaca | gaaatcaaaa  | ttcagacgct | gacatcagat | cacaatccta | aggtaaagaa | 3180 |
| gattgtagca | cagcacacaa  | aggaatggtc | agaaatgatc | aatacccaca | gtgctgagga | 3240 |
| gcaagaaatc | cgagacctgc  | acctcagcca | gcagtgtgag | ctgctgaaaa | agctactcat | 3300 |
| caatgccac  | gagcagcaaa  | cccagcagct | gaaactgtcc | catgacaggg | aaagcaagga | 3360 |

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| atctatcaag | aataaagcag | aacgggaaag | gcgagtcagg | gagttaaaca  | gcagcaacac  | 3480 |
| taaaaagttt | ctggaagaaa | gaaagagact | tgccatgaag | cagtccaag   | aaatggatca  | 3540 |
| gttgaaaaaa | gtccagcttg | aacatctaga | attcctagag | aaacagaatg  | agcagctttt  | 3600 |
| gaaatcctgt | catgcagtg  | cccaaacgca | aggcgaagga | gatgcagcag  | atggtgaaat  | 3660 |
| tggaagccga | gatggaccgc | agaccagcaa | cagtagtatg | aaactccaaa  | atgcaaaactg | 3720 |
| aagcagcaaa | cccacaaagc | atcaaaaagc | tcactcaca  | acttctgaac  | acaaactcca  | 3780 |
| tggtatgaa  | ctgttttatt | tgtttccttt | atgtgtaaac | aagatgatata | ctgaaaccag  | 3840 |
| agagacttgg | aatgtctgac | tgacttctat | ttaacagctt | gagtattgca  | tttccttggc  | 3900 |
| caacaaaaaa | tagctacaaa | tccacaaaaa | tttactattc | cagtaaggca  | gagtccaacc  | 3960 |
| attgataata | caacttaaac | atgtttgcta | taaaatacca | tcacaagtaa  | atgagcttgg  | 4020 |
| tgatgaaca  | cttcctttgt | gatgccttag | gacatgtttg | aactgcagca  | aaaaacaaaa  | 4080 |
| acaaaaaaca | gtgcattagc | aatttcatag | caagtgcag  | caataggaaa  | agaaaaactct | 4140 |
| gtctacaagt | ttattagcag | aagtgggtgt | ctgctagaca | aataattttg  | caaaattttt  | 4200 |
| ctacatctaa | gttacctcat | cagtaagtgc | catgtctcta | ccatgccatc  | agaggctaata | 4260 |
| ttcctgtaaa | agttgtggaa | attgttagaa | caatagaaaa | atagagcagt  | gtatgtgtgc  | 4320 |
| caaaactcat | cattactcaa | aggagaactg | gttagggcac | atttaagaaa  | gtttacatct  | 4380 |
| gacattgctt | tataggaatt | gtttctgcag | attccggata | ttataattca  | caccataaag  | 4440 |
| attgtgaagt | ggttattggc | aaacgtttgt | aaatgtgacc | atgtataaag  | tatttatact  | 4500 |
| ctttaattca | actgtttaga | gagcaaaaac | atctaagtat | tgccacatga  | caagattagt  | 4560 |
| aaacaggaat | actagaacta | tgtttgcatg | atacacaagc | accaataaag  | actaatccat  | 4620 |
| acacagttaa | cctaagtcca | aataaatact | ggttaataaa | atgtatggca  | cagaatataa  | 4680 |
| tttgactatc | aagactttta | gcataatgaa | aaaccctctc | tctatatata  | tatgtgtata  | 4740 |
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| ttaattttac | acaaaaatat | ttatgcagat | tttcagaatt | tcatatcagg  | aatgacctt   | 4860 |
| tttatgtctg | ttaaatatca | aaacaatttg | ctacagtgtt | aatctgcag   | gtctttaagc  | 4920 |
| ctgctgtagt | tgagttgcat | acagtgcag  | aaaaagtatt | ccgctgggaa  | ttgagccatg  | 4980 |
| ccaccaaagc | caagaggagc | gcatggaaac | ccggtagtct | agaactaatc  | agattactga  | 5040 |
| ttttagggca | cagcaccaga | tgaattgttg | tatatgcttg | taaaaattga  | tctgtgtgtg  | 5100 |
| tcctctgaac | aaagcggaga | aaatgatgat | accatcaata | ttgaaattaa  | acttccaact  | 5160 |
| tctctaataa | aaaattaaaa | cacgcataac | actcgtcaag | agtatttgct  | cccaagacac  | 5220 |
| attctagcaa | atgttttgcc | tttttcatat | acatgatatc | atcgttattt  | tcaaaggggg  | 5280 |

|   |      |
|---|------|
| cttattaata cctcagcat gtttttcacc caaatgatgc aaaacatgca gattctagtt  | 5340 |
| gacttcagtt gtaatagact tgtttttctc ctatttatga ttggaagtgg attctgtaaa | 5400 |
| atatctcttg ttcttagttt ccttatctgt aaaacagtgg agttagacta catatctttt | 5460 |
| ggcactaaca tctcatgaaa aattatgggt aataaaatat caccacattt ggattgccaa | 5520 |
| ttttcaaaaa aaaaaaaaaa aaaaaa                                      | 5546 |

<210> 27

<211> 2545

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_002416.1| chemokine (C-X-C motif) ligand 9 (CXCL9), mRNA

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| ttcctcttgg gcatcatctt gctggttctg attggagtgc aaggaacccc agtagtgaga  | 120  |
| aagggtcgct gttcctgcat cagcaccaac caagggacta tccacctaca atccttgaaa  | 180  |
| gaccttaaac aatttgcccc aagcccttcc tgcgagaaaa ttgaaatcat tgctacactg  | 240  |
| aagaatggag ttcaaacatg tctaaaccca gattcagcag atgtgaagga actgattaaa  | 300  |
| aagtgggaga aacaggtcag ccaaaagaaa aagcaaaaga atgggaaaaa acatcaaaaa  | 360  |
| aagaaagttc tgaagattcg aaaaatctca cgttctcgtc aaaagaagac tacataagag  | 420  |
| accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca  | 480  |
| ttccaaagga ggaatggcata taatacaaaag gcttattaat ttgactagaa aattttaa  | 540  |
| attactctga aattgtaact aaagttagaa agttgatttt aagaatccaa acgttaagaa  | 600  |
| ttgttaaagg ctatgattgt ctttgttctt ctaccaccca ccagttgaat ttcacatgc   | 660  |
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| ctcacaacag ctgcctggaa gagcagccct aggcctccac gtactgcagc ctccagagag  | 780  |
| tatctgaggc acatgtcagc aagtcctaag cctgttagca tgctgggtgag ccaagcagtt | 840  |
| tgaatttagc ctggacctca ccaagctgct gtggccatca acctctgtat ttgaatcagc  | 900  |
| ctacaggcct cacacacaat gtgtctgaga gattcatgct gattgttatt gggatcacc   | 960  |
| actggagatc accagtggtg ggctttcaga gcctcccttc tggctttgga agccatgtga  | 1020 |
| ttccatcttg ccgcctcagg ctgaccactt tatttctttt tgttccctt tgcttcattc   | 1080 |
| aagtcagctc ttctccatcc taccacaatg cagtgccttt cttctctcca gtgcacctgt  | 1140 |

|  |      |
|--|------|
| catatgctct gatttatctg agtcaactcc tttctcatct tgtccccaac accccacaga  | 1200 |
| agtgtcttct tctcccaatt catcctcact cagtccagct tagttcaagt cctgcctctt  | 1260 |
| aaataaacct ttttggacac acaaattatc ttaaaactcc tgtttcactt ggttcagtac  | 1320 |
| cacatgggtg aacactcaat ggttaactaa ttcttgggtg tttatcctat ctctccaacc  | 1380 |
| agattgtcag ctccctgagg gcaagagcca cagtatatct cctgtttctt tccacagtcg  | 1440 |
| ctaataatac tgtggaacta ggttttaata attttttaat tgatgttggt atgggcagga  | 1500 |
| tggaaccag accattgtct cagagcagggt gctggctctt tcctggctac tccatgttgg  | 1560 |
| ctagcctctg gtaacctctt acttattatc ttcaggacac tcactacagg gaccagggat  | 1620 |
| gatgcaacat ccttgtcttt ttatgacagg atgtttgctc agcttctcca acaataagaa  | 1680 |
| gcacgtggta aaacacttgc ggatattctg gactgttttt aaaaaatata cagtttaccg  | 1740 |
| aaaatcatat aatctttaca tgaaaaggac tttatagatc agccagtgac caaccttttc  | 1800 |
| ccaaccatac aaaattctct tttcccgaag gaaaagggtt ttctcaataa gcctcagctt  | 1860 |
| tctaagatct aacaagatag ccaccgagat ccttatcgaa actcatttta ggcaaatatg  | 1920 |
| agttttattg tccgtttact tgtttcagag ttgttattgt gattatcaat taccacacca  | 1980 |
| tctccatga agaaaaggaa cgggtgaagta ctaagcgcta gaggaagcag ccaagtcggt  | 2040 |
| tagtggaagc atgattggtg ccagtttagc ctctgcagga tgtggaaacc tccttcagg   | 2100 |
| ggaggttcag tgaattgtgt aggagaggtt gtctgtggcc agaatttaaa cctatactca  | 2160 |
| ctttcccaaa ttgaactcact gctcacactg ctgatgattt agagtgtgtt ccggtggaga | 2220 |
| tcccaccga acgtcttatc taatcatgaa actccctagt tccttcattg aacttccttg   | 2280 |
| aaaaatctaa gtgtttcata aatttgagag tctgtgacc accctacctg catctcacag   | 2340 |
| gtagacagta tataactaac aaccaagac tacatatgtt cactgacaca caggttataa   | 2400 |
| tcatttatca tatatatata tacatgcata cactctcaaa gcaaataatt tttcacttca  | 2460 |
| aaacagtatt gacttgtata ccttgtaatt tgaaatattt tctttgttaa aatagaatgg  | 2520 |
| tatcaataaa tagaccatta atcag  | 2545 |

<210> 28

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005859.2| purine-rich element binding protein A (PURA), mRNA

<400> 28

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|---|----|

|   |      |
|---|------|
| tggcggaccg agacagcggc agcgagcagg gtggtgcggc gctgggttcg ggcggctccc | 120  |
| tggggcacc cggctcggc tcaggctcgc gcggggcgcg tgggtgcggc gggggcggcg   | 180  |
| gcggcagtgg cggcggcgcc ggcggggccc caggggggct gcagcacgag acgcaggagc | 240  |
| tggcctccaa gcgggtggac atccagaaca agcgcttcta cctggacgtg aagcagaacg | 300  |
| ccaaggcgcg ctctctgaag atcgccgagg tgggcgcggg cggcaacaag agccgcctta | 360  |
| ctctctccat gtcagtggcc gtggagtccc gcgactacct gggcgacttc atcgagcact | 420  |
| acgcgcagct gggccccagc cagcccgccg acctggccca ggcgcaggac gagccgcgcc | 480  |
| gggcgctcaa aagcgagttc ctggtgcgcg agaaccgcaa gtactacatg gatctcaagg | 540  |
| agaaccagcg cggccgcttc ctgcgcatcc gccagacggt caaccggggg cctggcctgg | 600  |
| gtccacgca gggccagacc attgcgctgc ccgcgcaggg gctcatcgag ttccgtgacg  | 660  |
| ctctggccaa gtcctcgac gactacggag tggaggagga gccggccgag ctgcccggag  | 720  |
| gcacctcctt gactgtggac aacaagcgct tcttcttcga tgtgggtccc aacaagtagc | 780  |
| gcgtgtttat gcgagtgcgc gaggtgaagc ccacctatcg caactccatc accgtgccct | 840  |
| acaagggtgtg ggccaagttc ggacacacct tctgcaagta ctggaggag atgaagaaga | 900  |
| ttcaagagaa gcagagggag aagcgggctg cctgtgagca gcttcaccag cagcaacagc | 960  |
| agcagcagga ggagaccgcc gctgccacc tgctactgca gggtagaggaa gaaggggaag | 1020 |
| aagattgatc aaactgaatg aaacccccac acacacacac atgcatacac acacacacac | 1080 |
| agccacacac acagaaaaa tactgtaaag aaagagagaa aataaaaagt taaaaagtta  | 1140 |
| aaaa  | 1144 |

<210> 29

<211> 1575

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_014298.3| quinolinate phosphoribosyltransferase  
(nicotinate-nucleotide pyrophosphorylase (carboxylating)) (QPRT), mRNA

|  |     |
|--|-----|
| <400> 29   |     |
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| ctggcagccc tgggtggacg ctggctccga gaggactgcc cagggctcaa ctacgcagcc  | 180 |
| ttggtcagcg gggcaggccc ctgcaggcg gcgctgtggg ccaaatcccc tggggctactg  | 240 |
| gcagggcagc ctttcttcga tgccatattt acccaactca actgccaaagt ctctcgttcc | 300 |

|  |      |
|--|------|
| ctccccgagg gatcgaagct ggtgccggtg gccagagtgg ccgaggtccg gggccctgcc  | 360  |
| cactgcctgc tgcctggggga acgggtggcc ctcaacacgc tggcccgctg cagtggcatt | 420  |
| gccagtgcgt ccgccctgc agtgagggcc gccagggggg ccgctggac tgggcacgtg    | 480  |
| gcaggcacga ggaagaccac gccaggcttc cggtggtgg agaagtatgg gtcctcgtg    | 540  |
| ggcggggcgc cctgcacccg ctacgacctg ggagggctgg tgatggtgaa ggataaccat  | 600  |
| gtggtggccg ccggtggcgt ggagaagcgc gtgcgggcgc ccagacaggc ggctgacttc  | 660  |
| gctctgaagg tggaaagtga atgcagcagc ctgcaggagg ccgtgcaggc agctgaggct  | 720  |
| ggtgccgacc ttgtcctgct ggacaacttc aagccagagg agctgcaccc caccggccacc | 780  |
| gtgctgaagg ccaggttccc gagtgtggct gtggaagcca gtgggggcat caccctggac  | 840  |
| aacctcccc agttctgcgg gccgcacata gacgtcatct ccattggggat gctgaccgag  | 900  |
| gcggccccc cccttgattt tccctcaag ctgtttgcc aagaggtggc tccagtgcgc     | 960  |
| aaaatccact agtcctaacc cggaagagga tgacaccggc catgggttaa cgtggctcct  | 1020 |
| caggaccctc tgggtcacac atctttaggg tcagtggcca atggggcaca ttggcacta   | 1080 |
| gcttgagccc aactctgct gtgccacctg ctgctcctgt gacctgtcag ggtgacttc    | 1140 |
| acctctgctc atctcagttt cctaattctgt aaaatgggtc taataaagga tcaaccacat | 1200 |
| ggggttctgc ggtgataatg agcacatagt gaggggctag caaatgtcag aagtacctg   | 1260 |
| ggacagccgg gcacgatggc tcacacctgt aatcccagca ctttgggagg ctgaggcggg  | 1320 |
| aagatcactt gagttcagga gtttgagacc agcctggcca acatggtgaa accccatctc  | 1380 |
| tacaaaaaat agaagaatta gctgggtgtg gtggcacgcg cctgtaatcc cagctactta  | 1440 |
| ggaggctgag gcaggagaat cgcttgaacc caggaagtgg aggttgagc gagctgatgg   | 1500 |
| tgccactgca ctccagcctg ggtgatagag cgagactctg tctccaaaga agaaaaaaa   | 1560 |
| aaaaaaaaa aaaaa  | 1575 |

<210> 30

<211> 768

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004585.2| retinoic acid receptor responder  
(tazarotene induced) 3 (RARRES3), mRNA

<400> 30

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|---|-----|
| ccttcagcat aaaagctgat ccacaaacaa gaggagcacc agacctcctc ttgcttcga  | 60  |
| gatggcttcg ccacaccaag agcccaaacc tggagacctg attgagattt tccgccttgg | 120 |
| ctatgagcac tgggccctgt atataggaga tggctacgtg atccatctgg ctctctcaag | 180 |

|            |             |             |            |            |            |     |
|------------|-------------|-------------|------------|------------|------------|-----|
| tgagtacccc | ggggctggct  | cctccagtgt  | cttctcagtc | ctgagcaaca | gtgcagaggt | 240 |
| gaaacggggg | cgccctggaag | atgtgggtggg | aggctgttgc | tatcgggtca | acaacagctt | 300 |
| ggaccatgag | taccaaccac  | ggcccgtgga  | ggtgatcatc | agttctcgca | aggagatggt | 360 |
| tggtcagaag | atgaagtaca  | gtattgtgag  | caggaactgt | gagcactttg | tcgcccagct | 420 |
| gagatatggc | aagtcccgct  | gtaaacaggt  | ggaaaaggcc | aagggtgaag | tcggtgtggc | 480 |
| cacggcgctt | ggaatcctgg  | ttgttgctgg  | atgctctttt | gcgattagga | gataccaaaa | 540 |
| aaaagcaaca | gcctgaagca  | gccacaaaat  | cctgtgttag | aagcagctgt | gggggtccca | 600 |
| gtggagatga | gcctccccc   | tgctccagc   | agcctgacct | tcgtgccctg | tctcaggcgt | 660 |
| tctctagatc | ctttctctg   | tttccctctc  | tcgtggcaca | aagtatgac  | taattgaaac | 720 |
| aagactgaag | gatcaataaa  | cagccatctg  | ccccctcaaa | aaaaaaaa   |            | 768 |

<210> 31

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_002984.1| chemokine (C-C motif) ligand 4 (CCL4), mRNA

|             |             |  |
|-------------|-------------|--|
| <400> 31    |             |  |
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| tgagtctctgc | agcctcacct  | ctgagaaaac ctctttttcca ccaataccat gaagctctgc 120 |
| gtgactgtcc  | tgtctctcct  | catgctagta gctgccttct gctctccagc gctctcagca 180  |
| ccaatgggct  | cagaccctcc  | caccgcctgc tgccttttctt acaccgcgag gaagcttcct 240 |
| cgcaactttg  | tggtagatta  | ctatgagacc agcagcctct gctccagacc agctgtggta 300  |
| ttccaaacca  | aaagaagcaa  | gcaagtctgt gctgatccca gtgaatcctg ggtccaggag 360  |
| tacgtgtatg  | acctggaact  | gaactgagct gctcagagac aggaagtctt caggggaaggt 420 |
| cacctgagcc  | cggatgcttc  | tccatgagac acatctctcc catactcagg actcctctcc 480  |
| gcagttcctg  | tcccttctct  | taatttaatc ttttttatgt gccgtgttat tgtattaggt 540  |
| gtcatttcca  | ttattttatat | tagtttagcc aaaggataag tgtcctatgg ggatgggtcca 600 |
| ctgtcactgt  | ttctctgctg  | ttgcaaatac atggataaca catttgattc tgtgtgtttt 660  |
| ccataataaa  | actttaaaaa  | aaaatgcaga cagtta 696                            |

<210> 32

<211> 3338



<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001455.2| forkhead box O3A (FOXO3A), transcript variant 1,  
mRNA

<400> 32

|            |            |             |            |            |             |      |
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| gcgcgaggcc | gtcgattcgc | tcgcggctcc  | atcgcggcct | ggccgggggg | cgggtgtctgc | 60   |
| tgccgacagg | tcgctggcgc | cacgtcttca  | ggctctctct | ttcctgggag | gcgggcgcgc  | 120  |
| caggactggg | aggatggcgc | agcgggcgag  | gactcgccga | ggacggggct | ccggcccggg  | 180  |
| ataaccaact | ctccttctct | cttctttggt  | gcttccccag | gcggcggcgc | cgggcgccgc  | 240  |
| gagccggagc | cttcgcggcg | tcacgtccc   | tccccgcgtg | caccccgccc | cggcgcgaga  | 300  |
| ggagagcgcg | agagccccc  | ccgcgggcgc  | gcgggcggcg | aagatggcag | aggcaccggc  | 360  |
| ttccccggcc | ccgctctctc | cgctcgaagt  | ggagctggac | ccgaggttcg | agccccagag  | 420  |
| ccgtccgcga | tcttgtactg | ggcccctgca  | aaggccggag | ctccaagcga | gcccctgcca  | 480  |
| gcccctgggg | gagacggcgc | ccgactccat  | gatccccgag | gaggaggacg | atgaagacga  | 540  |
| cgaggacggc | gggggacggg | ccggctcggc  | catggcgatc | ggcgcggcgc | gcgggagcgc  | 600  |
| cacgtggggc | tccgggtcgc | tctttgagga  | ctcgcccgcg | gtgctggcac | ccggagggca  | 660  |
| agaccccggg | tctgggccgc | ccaccggcgc  | gggggggcgt | agcgggggta | cacaggcgct  | 720  |
| gctgcagcct | cagcaaccgc | tgccaccgcc  | gcagccgggg | gcggctgggg | gctccgggca  | 780  |
| gccgaggaaa | tgcttcgtcg | ggcggaacgc  | ctggggaaac | ctgtcctacg | cggacctgat  | 840  |
| caccgcgcgc | atcgagagct | ccccggacaa  | acggctcact | ctgtcccaga | tctacgagtg  | 900  |
| gatgggtcgt | tgctgtccct | acttcaagga  | taagggcgac | agcaacagct | ctgccggcgt  | 960  |
| gaagaactcc | atccggcaca | acctgtcact  | gcatagtcga | ttcatgcggg | tccagaatga  | 1020 |
| gggaactggc | aagagctctt | ggtggatcat  | caaccctgat | ggggggaaga | gcggaaaagc  | 1080 |
| cccccggcgc | cgggctgtct | ccatggacaa  | tagcaacaag | tataccaaga | gccgtggccc  | 1140 |
| cgagccaag  | aagaaggcag | ccctgcagac  | agcccccgaa | tcagctgacg | acagtccctc  | 1200 |
| ccagctctcc | aagtggcctg | gcagccccac  | gtcacgcagc | agtgatgagc | tggtatgcgt  | 1260 |
| gacggacttc | cgttcacgca | ccaattctaa  | cgcacgcaca | gtcagtggcc | gcctgtcgcc  | 1320 |
| catcatggga | agcacagagt | tggtatgaagt | ccaggacgat | gatgcgcctc | tctcgcccat  | 1380 |
| gctctacagc | agctcagcca | gcctgtcacc  | ttcagtaagc | aagccgtgca | cggtggaact  | 1440 |
| gccacggctg | actgatatgg | caggcaccat  | gaatctgaat | gatgggctga | ctgaaaacct  | 1500 |
| catggacgac | ctgctggata | acatcacgct  | cccgccatcc | cagccatcgc | ccactggggg  | 1560 |
| actcatgcag | cggagctcta | gcttcccgtg  | taccaccaag | ggctcgggcc | tgggctcccc  | 1620 |

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| aaccagctcc  | tttaacagca  | cggtgttcgg | accttcattc | ctgaactccc  | tacgccagtc  | 1680 |
| ttccatgcag  | accatccaag  | agaacaagcc | agctaccttc | tcttccatgt  | cacactatgg  | 1740 |
| taaccagaca  | ctccaggacc  | tgctcacttc | ggactcactt | agccacagcg  | atgtcatgat  | 1800 |
| gacacagtcg  | gaccccttga  | tgctcaggcg | cagcaccgct | gtgtctgccc  | agaattcccc  | 1860 |
| ccggaacgtg  | atgcttcgca  | atgatccgat | gatgtccttt | gctgcccagc  | ctaaccaggg  | 1920 |
| aagtttggtc  | aatcagaact  | tgctccacca | ccagcaccaa | acccaggcg   | ctcttgggtg  | 1980 |
| cagccgtgcc  | ttgtcgaatt  | ctgtcagcaa | catgggcttg | agtgaagtcca | gcagccttgg  | 2040 |
| gtcagccaaa  | caccagcagc  | agtctcctgt | cagccagtct | atgcaaaccc  | tctcggactc  | 2100 |
| tctctcaggc  | tcctccttgt  | actcaactag | tgcaaacctg | cccgctatgg  | gccatgagaa  | 2160 |
| gttcccccagc | gacttggacc  | tggaatgttt | caatgggagc | ttggaatgtg  | acatggagtc  | 2220 |
| cattatccgt  | agtgaactca  | tggaatgtga | tggttgggat | tttaactttg  | attcccccat  | 2280 |
| ctccacacag  | aatgtttgtg  | gtttgaacgt | ggggaacttc | actggtgcta  | agcaggcctc  | 2340 |
| atctcagagc  | tggtgcccag  | gctgaaggat | cactgaggaa | gggaagtgg   | gcaaagcaga  | 2400 |
| ccctcaaaact | gacacaagac  | ctacagagaa | aaccttttgc | caaattctgt  | ctcagcaagt  | 2460 |
| ggacagtgat  | accgtttaca  | gcttaacacc | tttgtgaatc | ccacgccatt  | ttcctaacc   | 2520 |
| agcagagact  | gttaatggcc  | ccttaccctg | ggtgaagcac | ttacccttgg  | aacagaactc  | 2580 |
| taaaaagtat  | gcaaaatctt  | ccttgtacag | ggtggtgagc | cgctgcccag  | tgaggagacag | 2640 |
| caccctctcag | caccacccac  | cctcattcag | agcacaccgt | gagccccctg  | cggccattct  | 2700 |
| gtggtgtttt  | aatattgcga  | tggttttatg | gacgttttaa | gtgtgtttct  | tgtgtttgtt  | 2760 |
| ttcctttgac  | tttctgagtt  | tttcacatgc | attaacttgc | ggtatttttc  | tgttaaaatg  | 2820 |
| ttaacctgtc  | ttccccctagc | aaatttaaaa | acagaaagaa | aatgttgtac  | cagttaccat  | 2880 |
| tccgggtctg  | agcatcacaa  | gcttttgagc | gcatggaact | ccataaacta  | acaaattaca  | 2940 |
| taactaaag   | ggggatttttc | tttcttcttt | tgtttgtagt | aaaattatcc  | ttttctaaaa  | 3000 |
| actgaacaat  | ggcacaattg  | tttgctatgt | gcacccgtcc | aggacagaac  | cggtcatagg  | 3060 |
| caaaaggagt  | ggagcacagc  | gtccggccca | gtgtgtttcc | ggttctgagt  | caggggtgatc | 3120 |
| tgtggacggg  | accccagcac  | caagtctacg | ggtgccagat | cagtagggcc  | tgtgattttc  | 3180 |
| tgctcagttc  | ctcagctaata | gtgaacagtg | ttggtctgct | ggttagaatac | tagaatattg  | 3240 |
| atatttttcag | gaaagaatac  | agctcagctc | tccactcatt | gccaaatgtc  | actaaagggg  | 3300 |
| ttagtttttaa | ggagaaagaa  | aaggaaaaaa | aaaaaaaaa  |             |             | 3338 |

<210> 33

<211> 2646

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_152873.1| tumor necrosis factor receptor superfamily,  
member 6 (TNFRSF6), transcript variant 4, mRNA

<400> 33

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tctcgcgcaa gagtgcaca cagggtgtca aagacgcttc tggggagtga ggaagcggt 180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc 240
cagccctggc tgcccaggcg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt 300
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gaccctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc 420
caaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttaga 480
gactcagaac ttggaaggcc tgcacatga tggccaattc tgccataagc cctgtcctcc 540
aggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccctg 600
ccaagaaggg aaggagtaca cagacaaagc ccattttct tccaatgca gaagatgtag 660
attgtgtgat gaaggacatg atgtgaacat ggaatcatca agaatgcac actcaccagc 720
aacaccaagt gcaaaaggga aggatccaga tctaacttgg ggtggccttg tcttctctt 780
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cacagaaagg aaaaccaagg ttctcatgaa tctccaacct taaatcttga aacagtggca 900
ataaatttat ctgatgttga cttgagtaaa tatatcacca ctattgtctg agtcatgaca 960
ctaagtcaag ttaaaggctt tgttcgaaag aatggtgtca atgaagccaa aatagatgag 1020
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attcagttct gagtatatgc aattagtgtt tgaaaagatt cttaatagct ggctgtaaat 1320
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agaggatgaa agattaagat tatgctctgg catctaacat atgattctgt agtatgaatg 1560
taatcagtgat atgttagtac aaatgtctat ccacaggcta accccactct atgaatcaat 1620
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|   |      |
|---|------|
| agaagaagct atgacctttt gctgaaatat cagttactga acaggcaggc cactttgcct | 1680 |
| ctaaattacc tctgataatt ctagagattt taccatat tttaaaactt tttataactc   | 1740 |
| tgagaagatc atatttatgt aaagtatatg tatttgagtg cagaatttaa ataaggctct | 1800 |
| acctcaaga cctttgcaca gtttattggt gtcataattat acaatatttc aattgtgaat | 1860 |
| tcacatagaa aacattaaat tataatgttt gactattata tatgtgtatg cattttactg | 1920 |
| gtctaaaact acctacttct ttctcaggca tcaaaagcat tttagcagg agagtattac  | 1980 |
| tagagctttg ccacctctcc atttttgcct tgggtgctcat cttaatggcc taatgcacc | 2040 |
| ccaaacatgg aaatatcacc aaaaaatact taatagtcca ccaaaggca agactgcct   | 2100 |
| tagaaaattc agcctgtgtt ggagatacta actgctctca gagaaagtag ctttgtgaca | 2160 |
| tgctcatgaac ccattgttgc aatcaaagat gataaaatag attcttattt ttccccacc | 2220 |
| cccgaaaatg ttcaataatg tcccatgtaa aacctgtac aaatggcagc ttatacatag  | 2280 |
| caatggtaaa atcatcatct ggatttagga attgctcttg tcataccccc aagtttctaa | 2340 |
| gatttaagat tctccttact actatcctac gtttaaatat ctttgaaagt ttgtattaaa | 2400 |
| tgtgaatttt aagaaataat atttatattt ctgtaaatgt aaactgtgaa gatagtata  | 2460 |
| aactgaagca gatactgga accacctaaa gaacttccat ttatggagga ttttttggc   | 2520 |
| ccttgtgttt ggaattataa aatataggtg aaagtacgta attaaataat gtttttggta | 2580 |
| aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  | 2640 |
| aaaaaa  | 2646 |

<210> 34

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_002038.2| interferon, alpha-inducible protein (clone IFI-6-16) (G1P3), transcript variant 1, mRNA

<400> 34

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| gaaccgttta ctcgctgctg tgccatcta tcagcaggct ccgggctgaa gattgcttct   | 60  |
| cttctctctc ccaaggtcta gtgacggagc ccgcgcgcg cgccaccatg cggcagaagg   | 120 |
| cggatcgcgt tttcttgtgc tacctgctgc tcttcacttg cagtgggggtg gaggcaggta | 180 |
| agaaaaagtg ctcggagagc tcggacagcg gctccgggtt ctggaaggcc ctgaccttca  | 240 |
| tggccgtcgg aggaggactc gcagtcgccg ggctgccgc gctgggcttc accggcgccg   | 300 |
| gcacgcggcg caactcgggt gctgcctcgc tgatgagctg gtctgcgac ctgaatgggg   | 360 |
| gcggcggtgc cgccgggggg ctagtggcca cgctgcagag cctcggggct ggtggcagca  | 420 |

|  |     |
|--|-----|
| gcgtcgtcat aggtaatat ggtgccctga tgggctacgc caccacaag tatctcgata    | 480 |
| gtgaggagga tgaggagtag ccagcagctc ccagaacctc ttcttccttc ttggcctaac  | 540 |
| ttctccagtt aggatctaga actttgcctt tttttttttt tttttttttt tttagatgg   | 600 |
| gttctcacta tattgtccag gctagagtgc agtggctatt cacagatgcg aacatagtac  | 660 |
| actgcagcct ccaactccta gcctcaagtg atcctcctgt ctcaacctcc caagtaggat  | 720 |
| tacaagcatg cgccgacgat gcccgagaatc cagaactttg tctatcactc tccccaacaa | 780 |
| cctagatgtg aaaacagaat aaacttcacc cagaaaa                           | 817 |

<210> 35

<211> 1172

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001565.1| chemokine (C-X-C motif) ligand 10 (CXCL10), mRNA

|  |      |
|--|------|
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| gagacattcc tcaattgctt agacatatc tgagcctaca gcagaggaa cttcagtcctc   | 60   |
| agcaccatga atcaaatgc gattctgatt tgctgcctta tctttctgac tctaagtggc   | 120  |
| attcaaggag tacctctctc tagaaccgta cgctgtacct gcatcagcat tagtaatcaa  | 180  |
| cctgttaatc caaggctctt agaaaaactt gaaattattc ctgcaagcca attttgcca   | 240  |
| cggtgtgaga tcattgctac aatgaaaaag aagggtgaga agagatgtct gaatccagaa  | 300  |
| tcgaaggcca tcaagaattt actgaaagca gttagcaagg aaatgtctaa aagatctcct  | 360  |
| taaaaccaga ggggagcaaa atcgatgcag tgcttccaag gatggaccac acagaggctg  | 420  |
| cctctcccat cacttcccta catggagtat atgtcaagcc ataattgttc ttagtgtgca  | 480  |
| gttactactaa aagggtgacca atgatggta ccaaatcagc tgctactact cctgtaggaa | 540  |
| ggttaatgtt catcatccta agctattcag taataactct accctggcac tataatgtaa  | 600  |
| gtctactgga ggtgctatgt tcttagtgga tgttctgacc ctgcttcaaa tatttcctc   | 660  |
| acctttccca tcttccaagg gtactaagga atctttctgc ttgggggttt atcagaattc  | 720  |
| tcagaatctc aaataactaa aaggatgca atcaaatctg ctttttaag aatgctcttt    | 780  |
| acttcatgga cttccactgc catcctccca aggggcccaa attctttcag tggctacctc  | 840  |
| catacaattc caaacacata caggaaggta gaaatatctg aaatgtatg tgtaagtatt   | 900  |
| cttatttaat gaaagactgt acaaagtata agtcttagat gtatatattt cctatatgtt  | 960  |
| tttcagtgtg catggaataa catgtaatta agtactatgt atcaatgagt aacagggaaa  | 1020 |

|  |      |
|--|------|
| ttttaaaat acagatagat atatgctctg catgttacat aagataaatg tgctgaatgg | 1080 |
| ttttcaata aaaatgaggt actctcctgg aaatattaag aaagactatc taaatgttga | 1140 |
| aagatcaaaa ggttaataaa gtaattataa ct                              | 1172 |

<210> 36

<211> 396

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005950.1| metallothionein 1G (MT1G), mRNA

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|---|-----|
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| cctcgggttg caatggaccc caactgctcc tgtgccgctg gtgtctcctg cacctgcgcc | 120 |
| agctcctgca agtgcaaaga gtgcaaatgc acctcctgca agaagagctg ctgtcctcgc | 180 |
| tgccctgtgg gctgtgccaa gtgtgcccaa ggctgcatct gcaaaggggc atcggagaag | 240 |
| tgacgtgct gcgcctgatg tcgggacagc cctgtccca agtacaata gagtgacccg    | 300 |
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| ttctgtgaaa tatgtgaata ataattaac acttag                            | 396 |

<210> 37

<211> 2755

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000043.3| tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 1, mRNA

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|---|-----|
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| ccagcgaggc ttccttccca tctcctgac caccggggct tttcgtgagc tcgtctctga  | 120 |
| tctcgcgcaa gagtgcaca cagggtgtca aagacgcttc tggggagtga gggaaagcgt  | 180 |
| ttacgagtga cttggctgga gcctcagggg cgggactgg cacggaacac accctgaggg  | 240 |
| cagccctggc tgcccagcgg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt | 300 |
| acggagttgg ggaagctctt tcacttcgga ggattgtca acaacatgc tgggcatctg   | 360 |
| gaccctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc | 420 |

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| ccaagtgact  | gacatcaact | ccaagggatt  | ggaattgagg | aagactgtta | ctacagtga   | 480  |
| gactcagaac  | ttggaaggcc | tgcatcatga  | tggccaattc | tgccataagc | cctgtcctcc  | 540  |
| agggtgaaagg | aaagctaggg | atgctcacagt | caatggggat | gaaccagact | gcgtgccttg  | 600  |
| ccaagaaggg  | aaggagtaca | cagacaaagc  | ccatttttct | tccaaatgca | gaagatgtag  | 660  |
| attgtgtgat  | gaaggacatg | gcttagaagt  | ggaaataaac | tgaccccgga | cccagaatac  | 720  |
| caagtgcaga  | tgtaaaccaa | actttttttg  | taactctact | gtatgtgaac | actgtgaccc  | 780  |
| ttgcaccaa   | tgtgaacatg | gaatcatcaa  | ggaatgcaca | ctcaccagca | acaccaagtg  | 840  |
| caaagaggaa  | ggatccagat | ctaacttggg  | gtggctttgt | cttcttcttt | tgccaatfcc  | 900  |
| actaattggt  | tgggtgaaga | gaaaggaagt  | acagaaaaca | tgagaaaagc | acagaaagga  | 960  |
| aaaccaaggt  | tctcatgaat | ctccaacctt  | aaatcctgaa | acagtggcaa | taaatattatc | 1020 |
| tgatgttgac  | ttgagtaaat | atatcaccac  | tattgctgga | gtcatgacac | taagtcaagt  | 1080 |
| taaaggcttt  | gttcgaaga  | atggtgtcaa  | tgaagccaaa | atagatgaga | tcaagaatga  | 1140 |
| caatgtccaa  | gacacagcag | aacagaaagt  | tcaactgctt | cgtaattggc | atcaacttca  | 1200 |
| tggaaagaaa  | gaagcgtatg | acacattgat  | taaagatctc | aaaaagcca  | atctttgtac  | 1260 |
| tcttgcagag  | aaaattcaga | ctatcatcct  | caaggacatt | actagtgaac | cagaaaattc  | 1320 |
| aaacttcaga  | aatgaaatcc | aaagcttggg  | ctagagtga  | aaacaacaaa | ttcagttctg  | 1380 |
| agtatatgca  | attagtgttt | gaaaagattc  | ttaatagctg | gctgtaaata | ctgcttgggt  | 1440 |
| ttttactggg  | tacattttat | catttattag  | cgctgaagag | ccaacatatt | tgtagatttt  | 1500 |
| taatatctca  | tgattctgcc | tccaaggatg  | tttaaaatct | agttgggaaa | acaaacttca  | 1560 |
| tcaagagtaa  | atgcagtggc | atgctaagta  | cccaaatagg | agtgatgca  | gaggatgaaa  | 1620 |
| gattaagatt  | atgctctggc | atctaacata  | tgattctgta | gtatgaatgt | aatcagtgtg  | 1680 |
| tgtagtagta  | aatgtctatc | cacaggctaa  | ccccactcta | tgaatcaata | gaagaagcta  | 1740 |
| tgaccttttg  | ctgaaatata | agttactgaa  | caggcaggcc | actttgcttc | taaattacct  | 1800 |
| ctgataatcc  | tagagatttt | accatatttc  | taaactttgt | ttataactct | gagaagatca  | 1860 |
| tatttatgta  | aagtatatgt | atttgagtgc  | agaattttaa | taaggctcta | cctcaaagac  | 1920 |
| ctttgcacag  | tttattggtg | tcattattata | caatatttca | attgtgaatt | cacatagaaa  | 1980 |
| acattaaatt  | ataatgtttg | actattatat  | atgtgtatgc | attttactgg | ctcaaaacta  | 2040 |
| cctacttctt  | tctcaggcat | caaaagcatt  | ttgagcagga | gagtattact | agagctttgc  | 2100 |
| cacctctcca  | tttttgcctt | ggtgctcatc  | ttaatggcct | aatgcacccc | caaacatgga  | 2160 |
| aatatcacca  | aaaaatactt | aatagtcac   | caaaaggcaa | gactgccctt | agaaaattcta | 2220 |
| gcctggtttg  | gagatactaa | ctgctctcag  | agaaagtagc | tttgtgacat | gtcatgaacc  | 2280 |
| catgtttgca  | atcaaatgat | ataaaataga  | ttcttatttt | tccccacccc | ccgaaaatgt  | 2340 |

|              |             |            |            |             |            |      |
|--------------|-------------|------------|------------|-------------|------------|------|
| tcaataatgt   | cccatgtaaa  | acctgctaca | aatggcagct | tatacatagc  | aatggtaaaa | 2400 |
| tcacatcatctg | gattttaggaa | ttgctcttgt | cataccccca | agtttctaag  | atttaagatt | 2460 |
| ctccttacta   | ctatctctacg | tttaaatatc | tttgaaagtt | tgtattaaat  | gtgaatttta | 2520 |
| agaaataata   | tttatatttc  | tgtaaatgta | aactgtgaag | atagttataa  | actgaagcag | 2580 |
| atacctggaa   | ccacctaaag  | aacttccatt | tatggaggat | ttttttgccc  | cttgtgtttg | 2640 |
| gaattataaa   | atataggttaa | aagtacgtaa | ttaaataatg | tttttggttaa | aaaaaaaaaa | 2700 |
| aaaaaaaaaa   | aaaaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaa      | 2755 |

<210> 38

<211> 1600

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001953.2| endothelial cell growth factor 1 (platelet-derived) (ECGF1), mRNA

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|-------------|-------------|
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| cgctgtgtcg  | cgaaccctga  |
| accctacggt  | cccgaaccgc  |
| 60          |             |
| gggagagcc   | gggtacctgg  |
| gctgggatcc  | ggagcaagcg  |
| ggcgaaggga  | gcgccttaag  |
| 120         |             |
| caggcccgga  | gcgatggcag  |
| ccttgatgac  | cccgggaacc  |
| ggggcccccac | ccgcgcctgg  |
| 180         |             |
| tgacttctcc  | gggggaaggga |
| gccagggact  | tcccgaccct  |
| tcgccagagc  | ccaagcagct  |
| 240         |             |
| cccggagctg  | atccgcatag  |
| agcgagacgg  | aggccgcctg  |
| agcgaagcgg  | acatcagggg  |
| 300         |             |
| cttcgtggcc  | gctgtgtgtg  |
| atgggagcgc  | gcagggcgca  |
| cagatcgggg  | ccatgctgat  |
| 360         |             |
| ggccatccga  | cttcggggga  |
| tgatctgtga  | ggagacctcg  |
| gtgctgacct  | aggccctggc  |
| 420         |             |
| tcagtcggga  | cagcagctgg  |
| agtggccaga  | ggcctggcgc  |
| cagcagcttg  | tggacaagca  |
| 480         |             |
| ttccacaggg  | ggtgtgggtg  |
| acaaggctcag | cctggtctct  |
| gcacctgccc  | tggcggcagt  |
| 540         |             |
| tggctgcaag  | gtgccaatga  |
| tcagcggacg  | tggtctgggg  |
| cacacaggag  | gcaccttgga  |
| 600         |             |
| taagctggag  | tctattctct  |
| gattcaatgt  | catccagagc  |
| ccagagcaga  | tgcaagtgtc  |
| 660         |             |
| gctggaccag  | gcgggtctgt  |
| gtatcgtggg  | tcagagttag  |
| cagctggttc  | ctgcggacgg  |
| 720         |             |
| aatcctatat  | gcagccagag  |
| atgtgacagc  | caccgtggac  |
| agcctgccac  | tcattcacagc |
| 780         |             |
| ctccattctc  | agtaagaaac  |
| tcgtggaggg  | gctgtcccgt  |
| ctggtggtgg  | acgttaagtt  |
| 840         |             |
| cggagggggc  | gccgtcttcc  |
| ccaaccagga  | gcaggcccgg  |
| gagctggcaa  | agagctggtt  |
| 900         |             |
| tggcgtggga  | gccagccctag |
| ggcttcgggt  | cgcggcagcg  |
| ctgaccgccca | tggacaagcc  |
| 960         |             |
| cctgggtcgc  | tgcgtggggc  |
| acgccctgga  | ggtggaggag  |
| gcgctgctct  | gcattggacgg |
| 1020        |             |
| cgcaggcccg  | ccagacttaa  |
| gggacctggt  | caccacgctc  |
| ggggcgcccc  | tgctctggct  |
| 1080        |             |



|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cagcggacac | gccccgactc | aggctcaggg | cgctgcccg  | gtggccgcg  | cgctggacga | 1140 |
| cggtcggcc  | cttggccgct | tcgagcggat | gctggcggcg | cagggcgctg | atcccggctc | 1200 |
| ggccccgagc | ctgtgtctcg | gaagtccgc  | agaacgcgg  | cagctgtgtc | ctcgcggccg | 1260 |
| ggagcaggag | gagctgctgg | cgccccgaga | tggcaccgtg | gagctgtgtc | gggcgctgcc | 1320 |
| gctggcgctg | gtgctgcacg | agctcggggc | cgggcgcagc | cgctgtgggg | agccgtctcg | 1380 |
| cctgggggtg | ggcgcagagc | tgctggtcga | cgtaggtcag | aggctgcgcc | gtgggacccc | 1440 |
| ctggctccgc | gtgcaccggg | acggccccgc | gctcagcggc | ccgcagagcc | gcgccttgca | 1500 |
| ggaggcgctc | gtactctccg | accgcgcgcc | attcgccgcc | ccctcgccct | tcgcagagct | 1560 |
| cgttctgccg | ccgcagcaat | aaagctcctt | tgccgcgaaa |            |            | 1600 |

<210> 39

<211> 931

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005138.1| SCO cytochrome oxidase deficient homolog 2 (yeast)  
(SCO2), nuclear gene encoding mitochondrial protein, mRNA

|            |   |
|------------|---|
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| gcagagccca | gggagctgga ggtcggcgct tcctctctgt cttggtccac tgacgcgcg   |
| ccccgcgcg  | aggagcatca gatccatgct gctgctgact cggagcccca cagcttgga   |
| caggctctct | cagctcaagc ctccggtcct ccctgggacc ctgggaggcc agggccctgca |
| tctgaggctc | tggcttttgt caaggcaggg ccctgcagag acaggtgggc agggccagcc  |
| ccagggccct | gggcttcgaa cccggctgct gatcacaggc ctgttcgggg ctggactcgg  |
| tggggccttg | ctggccctga gggctgagaa ggagaggctg cagcagcaaa agcgaacaga  |
| agccctgcgc | caggcagctg tgggcccagg cgacttccac ctgctggatc acagaggccg  |
| ggctcgtctc | aaggctgact tccggggcca gtgggtgctg atgtactttg gcttactca   |
| ctgccctgac | atctgcccag acgagctgga gaagctggtg caggtgtgtc ggcagctgga  |
| agcagagcct | ggtttgcctc cagtgcagcc tgtcttcac actgtggacc ccgagcggga   |
| cgacgttgaa | gccatggccc gctacgtcca ggacttccac ccaagactgt tgggtctgac  |
| cggctccacc | aaacagggtg ccagggtag tcacagttac cgcgtgtact acaatgccgg   |
| ccccaggat  | gaggaccagg actacatcgt ggacactcc attgccatct acctgtcaa    |
| ccctgacggc | ctcttcacgg attactacgg ccggagcaga tcggctgagc agatctcaga  |
| cagtgtgcgg | cggcacatgg cggctttccg cagtgtcctg tcttgagcca ctgcagctgt  |
|            | 60  |
|            | 120   |
|            | 180   |
|            | 240   |
|            | 300   |
|            | 360   |
|            | 420   |
|            | 480   |
|            | 540   |
|            | 600   |
|            | 660   |
|            | 720   |
|            | 780   |
|            | 840   |
|            | 900   |

ggccccatca ttaaacgggc tgcgtttaaa a

931

<210> 40

<211> 1216

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006419.1| chemokine (C-X-C motif) ligand 13 (B-cell chemoattractant) (CXCL13), mRNA

<400> 40  
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gctcaagtct gaactctacc tccagacaga atgaagttca tctcgacatc tctgtctctc 120  
atgctgctgg tcagcagcct ctctccagtc caaggtgttc tggaggtcta ttacacaagc 180  
ttgagtgta gatgtgtcca agagagctca gtctttatcc ctagacgctt cattgatcga 240  
attcaaactc tgccccgtgg gaatggttgt ccaagaaaag aaatcatagt ctggaagaag 300  
aacaagtcaa ttgtgtgtgt ggaccctcaa gctgaatgga tacaagaat gatggaagta 360  
ttgagaaaaa gaagttcttc aactctacca gttccagtgt ttaagagaaa gattccctga 420  
tgctgatatt tccactaaga acacctgcat tcttccctta tccctgctct ggattttagt 480  
tttgtgctta gttaaacttt ttccaggagg aaagaacttc cccatacaaa taaggcatga 540  
ggactatgtg aaaaataacc ttgcaggagc tgatggggca aactcaagct tcttcaactca 600  
cagcacccta tatacacttg gagtttgcatt tcttattcat cagggaggaa agtttctttg 660  
aaaatagtta ttcagttata agtaatacag gattattttg attatatact tgttgtttaa 720  
tgtttaaaat ttcttagaaa acaatggaat gagaatttaa gcctcaaatt tgaacatgtg 780  
gcttgaaata agaagaaaat tatggcatat attaaaagca ggcttctatg aaagactcaa 840  
aaagctgcct gggaggcaga tggaaactga gcctgtcaag aggcaaaagga atccatgtag 900  
tagatatcct ctgcttaaaa actcactacg gaggagaatt aagtcctact ttaaaagaat 960  
ttctttataa aattttactgt ctaagattaa tagcattcga agatccccag acttcataga 1020  
atactcaggg aaagcattta aagggtgatg tacacatgta tcctttcaca catttgccct 1080  
gacaaacttc ttctactcac atctttttca ctgacttttt ttgtgggggc ggggccgggg 1140  
ggactctggt atctaattct ttaatgattc ctataaatct aatgacattc aataaagttg 1200  
agcaaacatt ttactt 1216

<210> 41

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006433.2| granulysin (GNLY), transcript variant NKG5, mRNA

<400> 41  
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aaagattaag ctgcaggctc cctgcccata aaacaggggtg tgaaaggcat ctacagcggtc 120  
gccccaccat ggctacctgg gccttcctgc tccttgacgc catgctcctg ggcaaccagc 180  
gtctgtgtctt ctctcgtctg agccctgagt actacgacct ggcaagagcc cacctgcgtg 240  
atgaggagaa atcctgcccc tgcttgcccc aggaggggcc ccagggtgac ctgttgacca 300  
aaacacagga gctggggcgt gactacagga cctgtctgac gatagtccaa aaactgaaga 360  
agatggtgga taagccacc cagagaagtg ttccaatgc tgcgaccagg gtgtgtagga 420  
cggggaggtc acgatggcgc gacgtctgca gaaatttcat gaggaggtat cagtctagag 480  
ttaccaggg cctcgtggcc ggagaaactg cccagcagat ctgtgaggac ctacaggtgtg 540  
gtataccttc tacaggtccc ctctgagccc tctcaccttg tcctgtggaa gaagcacagg 600  
ctcctgtcct cagatcccg gaaacctcagc aacctctgcc ggctcctcgc ttcctcgatc 660  
cagaatccac tctccagtct cctcccccctg actccctctg ctgtcctccc ctctcacgag 720  
aataaagtgt caagcaag 738

<210> 42

<211> 1579

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001767.2| CD2 antigen (p50), sheep red blood cell receptor (CD2), mRNA

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tgtttcttcc aaaggtgacg tctccaaaga gattacgaat gccttggaag cctgggggtgc 120  
cttgggtcag gacatcaact tggacattcc tagttttcaa atgagtgatg atattgacga 180  
tataaaatgg gaaaaaactt cagacaagaa aaagattgca caattcagaa aagagaaaga 240  
gactttcaag gaaaaagata catataagct atttaaaat ggaactctga aaattaagca 300  
tctgaagacc gatgatcagg atatctacaa ggtatcaata tatgatacaa aaggaaaaaa 360  
tgtgttgga aaaaatattg atttgaagat tcaagagagg gtctcaaaac caaagatctc 420

|   |      |
|---|------|
| ctggacttgt atcaacacaa cctgacctg tgaggtaatg aatggaactg accccaatt   | 480  |
| aaacctgtat caagatggga aacatctaaa actttctcag agggatcatca cacacaagt | 540  |
| gaccaccagc ctgagtgcaa aattcaagtg cacagcaggg aacaaagtca gcaaggaatc | 600  |
| cagtgtcgag cctgtcagct gtccagagaa aggtctggac atctatctca tcattggcat | 660  |
| atgtggagga ggcagcctct tgatggctct tgtggcactg ctggttttct atataccaa  | 720  |
| aaggaaaaaa cagaggagtc ggagaaatga tgaggagctg gagacaagag cccacagagt | 780  |
| agctactgaa gaaaggggcc ggaagcccca acaaattcca gcttcaacc ctcagaatcc  | 840  |
| agcaacttcc caacatcctc ctccaccacc tggatcatct tcccaggcac ctagtcatcg | 900  |
| tccccgcct cctggacacc gtgttcagca ccagcctcag aagaggcctc ctgtccctc   | 960  |
| gggcacacaa gttcaccagc agaaaggccc gccctctccc agacctcgag ttcagccaaa | 1020 |
| acctcccat ggggcagcag aaaaactcatt gtccctctcc tctaattaaa aaagatagaa | 1080 |
| actgtctttt tcaataaaaa gactgtgga tttctgcctt cctgatgtgc atataccgtac | 1140 |
| ttccatgagg tgttttctgt gtgcagaaca ttgtcacctc ctgaggctgt gggccacagc | 1200 |
| cacctctgca tcttcgaact cagccatgtg gtcaacatct ggagtttttg gtctcctcag | 1260 |
| agagctccat cacaccagta aggagaagca atataagtgt gattgcaaga atggtagagg | 1320 |
| accgagcaca gaaatcttag agatttcttg tccctctca ggtcatgtgt agatgcgata  | 1380 |
| aatcaagtga ttggtgtgcc tgggtctcac tacaagcagc ctatctgctt aagagactct | 1440 |
| ggagtttctt atgtgccctg gtggacactt gccaccatc ctgtgagtaa aagtgaata   | 1500 |
| aaagctttga ctagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa | 1560 |
| aaaaaaaaaa aaaaaaaaaa   | 1579 |

<210> 43

<211> 3738

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006275.4| splicing factor, arginine/serine-rich 6 (SFRS6), mRNA

|   |     |
|---|-----|
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| tgttcgggct cttgccgtcc ccgcaccgc accgcggtta ctggcttgcg gtccgccgtt  | 120 |
| cgacaaccag cctctgggtc cccgccgcc acggacatgc cgcgcgtcta cataggacgc  | 180 |
| ctgagctaca acgtccggga gaaggacatc cagcgtttt tcagtggcta tggccgcctc  | 240 |

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| ctcgaagtag | acctcaaaaa  | tgggtacggc  | ttcgtggagt | tcgaggactc | ccgcgacgcc  | 300  |
| gacgacgccg | tttacgagct  | gaacggcaag  | gagctctgcg | gcgagcgcgt | gatcgtagag  | 360  |
| cacgcccggg | gcccgcgctg  | cgatcgcgac  | ggctacagct | acggaagccg | cagtggtgga  | 420  |
| ggtggatata | gcagtcggag  | aacatctggc  | agagacaaat | acggaccacc | tgttctgtaca | 480  |
| gaatacaggc | ttattgtaga  | aaatctttct  | agtcggtgca | gttggcaaga | tttaaaggat  | 540  |
| tttatcgac  | aagcaggtga  | agtaacctat  | gcggatgcc  | acaaggaacg | aacaaatgag  | 600  |
| ggtgtaattg | agtttctgct  | ctactctgac  | atgaagcgtg | ctttggacaa | actggaatggc | 660  |
| acagaaataa | atggcagaaa  | tattaggctt  | attgaagata | agccacgcac | aagccatagg  | 720  |
| cgatcttact | ctggaagcag  | atccaggctt  | cgatctagaa | gacggtcacg | aagtaggagt  | 780  |
| cgaggagca  | gccgcagtag  | atctcgaagt  | atctcaaaaa | gtcgtctccg | ttccaggctg  | 840  |
| cgagcaaaag | gtcgatcacg  | ttctcgatca  | aaaggcagga | aatctagatc | aaagagcaaa  | 900  |
| tctaagccca | agtctgatcg  | gggtcccat   | tcacattctc | gaagcagatc | taaggatgag  | 960  |
| tatgagaaat | ctcgaagcag  | gtctcggctc  | cgatccccc  | aagaaaatgg | aaagggatgat | 1020 |
| ataaagtcaa | aatccagatc  | aaggagccag  | tcccgttcca | attcgccgct | acctgttcca  | 1080 |
| ccctcaaagg | cccgttctgt  | gtcccctcca  | ccaaaaagag | ctacttcaag | atcccgttct  | 1140 |
| agatctcgct | caaagtcaag  | atcaaggctc  | aggctgagtt | ccagagatta | actcagaact  | 1200 |
| ccttgtttgc | acattattat  | ggaacacttt  | cctacttagg | cagttactct | tccatgttta  | 1260 |
| tacttggcct | cttctgcaag  | aggaatctct  | tgaaaacagg | ggcacacaga | aatttgattt  | 1320 |
| gtggccaaat | tggatgaaaa  | agatgaggct  | ctaaggaaat | ggtggcatga | agaccctctc  | 1380 |
| ccttctttgt | agaattaaga  | taactttgat  | tttatagctt | ttgagctaac | gtaacttttg  | 1440 |
| taaagattaa | gctcatttag  | tgttgttttt  | tttttttttt | tttttttttt | tttttagtat  | 1500 |
| ttcagcagga | tctgctggca  | gggttttttt  | gttttatttg | tttgcttatt | tttaaattaa  | 1560 |
| ctgttttgag | ctttgaatac  | ttaaggcttt  | agagggagaa | cccaattttc | aattatgttg  | 1620 |
| gctttttata | aagcttgagt  | tatgtaagat  | ttaaataaaa | gtttgctacc | aagatgattg  | 1680 |
| ccttattgaa | taggtcacta  | ttaaattcct  | ttaaatgttg | atatctgcc  | tttgggaaa   | 1740 |
| caacgtaaat | tctacttaag  | tgtaaaacaag | gcaagcctca | gaccagcaat | aaattactca  | 1800 |
| gtttggataa | cattattttg  | tgcagttaat  | caaatttgcc | aaagtcttta | tctgcccttt  | 1860 |
| taacaagtgt | agtaaaaaata | aaaggtattt  | tttagtcaat | gtgttccatg | attttgctta  | 1920 |
| aattaatact | tttaagtaat  | ggaacttttt  | tcaaggcaaa | atttaaacta | tttaagaaat  | 1980 |
| agtcctaata | acttgggac   | ttgtttagag  | aatccacttt | ctggaagtgc | tcagcataat  | 2040 |
| tagtggttag | agtggttcag  | ttgtctttaa  | tgtttgcat  | gtggaatgg  | aagtagcctc  | 2100 |
| ttttgttct  | gaaattgagt  | ttattcaaag  | tgtaaaagca | catactgcat | tttctgctga  | 2160 |

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| aagatcatta | tgtttaacag | gcacttaatc  | tcagtaaagt | cagttgccag  | taaagtcca   | 2220 |
| cccagtagtc | agtccccctt | gtagtttagt  | ggattatttg | ataattgggt  | agatcatact  | 2280 |
| tgtaaat    | aatgctttgt | gtaattgggt  | tgaaaaacag | tgaaatgggt  | aaacgcaaaa  | 2340 |
| cttttgtagt | ttattacgag | taaagtgtaa  | tgagtactgt | ggaaacaaaa  | tttgaatact  | 2400 |
| gcaaatttgt | aggagtact  | agggttagcaa | ttagtccata | catccataag  | cctgatgagt  | 2460 |
| tgaaattgca | gtttgagaag | tgaattaacc  | ttacatccct | ttgttcagat  | accttaaaag  | 2520 |
| ttactttatt | taaaagcatt | tattaatctt  | agtcgtgaa  | caaaatatag  | attaattggc  | 2580 |
| tcagcttta  | tacctttcta | ggaggtgtca  | caatgtagg  | taccaagggt  | tggattgtga  | 2640 |
| tggggcatgg | tcgtacactg | ctcattgtgc  | cacagggtgt | actggaaagc  | atgatattct  | 2700 |
| aggggtgggt | tgtagattca | aataatccag  | aaatatacct | aataagattg  | agtgaaaaa   | 2760 |
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| gccttgtttt | tcagaaattc | ctgggtttcc  | tgtaaaaaa  | tcttaaaagc  | caaccttagg  | 2880 |
| aatatagtc  | cccaaaaggc | ggatgcttct  | tccattatct | tattttcttt  | gatactttat  | 2940 |
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| gaaagaaaa  | gatgtctgtt | gttatagttc  | attgttttgc | ctactcagca  | gaagtgatga  | 3060 |
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| tttgaactac | agccttttta | aaagagggat  | gggaggatat | tacagtaaga  | aattaggctt  | 3180 |
| tctaaaagta | tgaacatccc | ttcaactggg  | ctctctgtgt | aataggacat  | catatggtaa  | 3240 |
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| cctgcaccca | taattttcta | gtaatagcca  | cgaccaattt | attaacagtc  | agggcctatc  | 3360 |
| cttgctgtga | gttctcagtc | actggatgca  | caaaatcact | gtgtaacatt  | ggctcacttg  | 3420 |
| gtgagcatag | ggttgactga | taaaatgttt  | aattcccttg | ctagcttggtg | agaagaatga  | 3480 |
| gttgatgaca | tgctccatac | cagtggtctag | atggagtatt | aagggtggagc | agaaaagaag  | 3540 |
| tgagaacatc | ttgattcccc | tttcttttac  | ttgatgggtg | ttatgaacat  | gccgtagtgc  | 3600 |
| ctttatggcc | agtttgagtc | ctgcctactt  | tgacttttac | gttcccattc  | ctgtgttacc  | 3660 |
| accttctctc | cgatttggtc | acctattttg  | tgcttttaaa | ctcaataaaa  | tacttactga  | 3720 |
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<210> 44

<211> 2033

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003212.1| teratocarcinoma-derived growth factor 1 (TDGF1), mRNA

```

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tgggtgtaga gaagcaagta aaaaggctaa atggaagggc aagtttccat catctataga 1740
aagctatata agacaagaac tccccttttt ttcccaaagg cattataaaa agaatgaagc 1800

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|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ctccttagaa | aaaaaattat | acctcaatgt | ccccaacaag | attgcttaat | aaattgtgtt | 1860 |
| tcctccaagc | tattcaattc | ttttaactgt | tgtagaagac | aaaatgttca | caatatattt | 1920 |
| agttgtaaac | caagtgatca | aactacatat | tgtaaagccc | atttttaaaa | tacattgtat | 1980 |
| atatgtgtat | gcacagtaaa | aatggaaact | atattgacct | aaaaaaaaaa | aaa        | 2033 |

<210> 45

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005951.1| metallothionein 1H (MT1H), mRNA

|             |            |  |     |
|-------------|------------|--|-----|
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| gcgcctgcgc  | cggtcctctg | aagtgcacaaa agtgcaaatg cacctcctgc aagaagagct | 120 |
| gctgctcctg  | ttgccccctg | ggctgtgcca agtgtgccca gggctgcacg tgcaaaagggg | 180 |
| cgtcagagaa  | gtgcagctgc | tgtgcctgat gtcgggacag ccctgctgctc agatgaaaac | 240 |
| agaatgacac  | gtaaaatccg | aggttttttt tttctacaac tccgactcat ttgctacatt  | 300 |
| cctttttttc  | tgtgaaatat | gtgaataata attaaacact tagacttgaa aaaaaaaaaa  | 360 |
| aaaaaaa     |            |  | 367 |

<210> 46

<211> 3052

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000767.4| cytochrome P450, family 2, subfamily B, polypeptide 6 (CYP2B6), mRNA

|            |            |   |     |
|------------|------------|---|-----|
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| caggaccatg | gaactcagcg | tcctcctctt ccttgactc ctcacaggac tcttgctact  | 60  |
| cctgggtcag | cgccacccta | acacccatga ccgctccca ccaggggccc gccctctgac  | 120 |
| ccttttggga | aaccttctgc | agatggatag aagaggccta ctcaaatcct tcttgagggt | 180 |
| ccgagagaaa | tatggggacg | tcttcacggt acacctggga ccgaggcccg tggctatgct | 240 |
| gtgtggagta | gaggccatac | gggaggccct tgtggacaag gctgaggcct tctctggccg | 300 |
| gggaaaaatc | gccatggtcg | accattctt ccggggatat ggtgtgatct ttgccaatgg  | 360 |



|            |             |            |            |             |            |      |
|------------|-------------|------------|------------|-------------|------------|------|
| aaaccgctgg | aagggtgcttc | ggcgattctc | tgtgaccact | atgagggact  | tcgggatggg | 420  |
| aaagcggagt | gtggaggagc  | ggattcagga | ggaggctcag | tgtctgatag  | aggagcttcg | 480  |
| gaaatccaag | ggggccctca  | tggacccac  | cttctcttc  | cagtccatta  | ccgccaacat | 540  |
| catctgctcc | atcgtctttg  | gaaaacgatt | ccactaccaa | gatcaagagt  | tcctgaagat | 600  |
| gctgaacttg | ttctaccaga  | ctttttcact | catcagctct | gtattcggcc  | agctgtttga | 660  |
| gctcttctct | ggcttcttga  | aatactttcc | tggggcacac | aggcaagttt  | acaaaaacct | 720  |
| gcaggaaatc | aatgcttaca  | ttggccacag | tgtggagaag | caccgtgaaa  | ccctggaccc | 780  |
| cagcgccccc | aaggacctca  | tcgacaccta | cctgctccac | atggaaaaag  | agaaatccaa | 840  |
| cgcacacagt | gaattcagcc  | accagaacct | caacctcaac | acgctctcgc  | tcttctttgc | 900  |
| tggcactgag | accaccagca  | ccactctcgc | ctacggcttc | ctgctcatgc  | tcaaataccc | 960  |
| tcattgttga | gagagagtct  | acagggagat | tgaacaggtg | attggcccac  | atcgccctcc | 1020 |
| agagcttcat | gaccgagcca  | aaatgccata | cacagaggca | gtcatctatg  | agattcagag | 1080 |
| attttccgac | cttctcccca  | tgggtgtgcc | ccacattgtc | acccaacaca  | ccagcttccg | 1140 |
| agggtacatc | atcccaagg   | acacagaagt | atttctcatc | ctgagcactg  | ctctccatga | 1200 |
| cccacactac | tttgaaaaac  | cagacgcctt | caatcctgac | catttcttgg  | atgccaatgg | 1260 |
| ggcactgaaa | aagactgaag  | cttttatccc | cttctccta  | gggaagcgga  | ttgtcttgg  | 1320 |
| tgaaggcatc | gcccggtcgg  | aattgttcct | cttcttcacc | accatcctcc  | agaacttctc | 1380 |
| catggccagc | cccgtgtccc  | cagaagacat | cgatctgaca | ccccaggagt  | gtggtgtggg | 1440 |
| caaaataccc | ccaacatacc  | agatccgctt | cctgccccgc | tgaaggggct  | gagggaaggg | 1500 |
| ggtcaaaagg | ttccagggtc  | attcagtgtc | ccgcctctg  | tagacaatgg  | ctctgactcc | 1560 |
| ccgcaacttc | ctgcctctga  | gagacctgct | acaagccagc | ttccttcccc  | tccatggcac | 1620 |
| cagttgtctg | aggtcacatt  | gcaagtgagt | gcaggagtga | gattatcgaa  | aattataata | 1680 |
| tacaaaaatc | tatatatata  | tatgttcttg | ttttttgaga | cagagtctca  | cactgttgcc | 1740 |
| caggctggag | tgcagtggcg  | tgatctcggc | tcactgcaac | ctccaccccc  | ggggatcaag | 1800 |
| caactctcct | gcctcagcct  | ccctagtagc | tgggattaca | ggcatgcaact | accacgcttg | 1860 |
| gctaattttt | gtatttttag  | tagagatggg | gtttcactgt | gtaggccagg  | ctggtctcga | 1920 |
| actcctgaac | tcaagtgatt  | caccacacct | agcctcccaa | agtgctggga  | ttacaggcgt | 1980 |
| gagtcaccgt | gccagccat   | gtatatatat | aattttaaaa | attaagctga  | aattcacata | 2040 |
| acataaaatt | agctgtttta  | aagtgtaaaa | tttagtgggc | tgtggttcat  | tcacaaagct | 2100 |
| gtacaaccac | caccatctag  | ttccaaacat | tttctttttt | tctgagatgg  | agtctcactc | 2160 |
| gtgcaccag  | gttcgagttc  | agtggtgcc  | tctctgtcca | ctgcaacctc  | cacatcctgg | 2220 |
| gttcaagtga | ttctcctgcc  | tcagcctctg | gaggagctgg | tatcacaggc  | gtccccacc  | 2280 |

|   |      |
|---|------|
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| ctagctccaa atgttttcat tatctctccc ccaacaaaac ccatacctat caagctgtca | 2400 |
| ctccccatac cccattctct ttttcatctc ggccccgtgc aatctgggtt ttgtcactat | 2460 |
| ggacttacca attctgaata ttcccataa acagaatcat acaatatTTg atTTTTTTTT  | 2520 |
| TTTTTTgaa actaagcctt gtctgtctc ccagggtgga gtgtatggt gcaatTTTg     | 2580 |
| ttcactgcaa cctctgcctt ccaagatcaa gagattctcc agtctcagct cccaagtagc | 2640 |
| tgggattaca ggcagtact accatgcctg gctaatttct ttgtagtttt agtagggaca  | 2700 |
| tgttggccag gctggtggtg agctcctggc ctccagggtat ccaccacct cagtgttcca | 2760 |
| aagtgtgat attacaggca taatatgtga tcttttTgt ctggttgctt tcatgttgaa   | 2820 |
| tgctattttt gaggttcagt cctgttTtag accacagtca cacactgctg tagtcttccc | 2880 |
| cagtctcat tcccagctgc ctcttctac tgcttccgtc tatcaaaaag ccccttggc    | 2940 |
| ccagggtccc tgagctgtgg gattctgcac tgggtctttg gattccctga tatgttctt  | 3000 |
| caaatctgct gagaattaa taaacatctc taaagcctga cctccccacg tc          | 3052 |

<210> 47

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003811.2| tumor necrosis factor (ligand) superfamily,  
member 9 (TNFSF9), mRNA

|   |     |
|---|-----|
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| ccgcgcccg cgctcgcgcc tgccgcgtac tgccctgggc cctggtcgcg gggctgctgc  | 120 |
| tgctgtcgt gctcgtgcc gcctgcgcg tcttctcgc ctgccctgg gccgtgtccg      | 180 |
| gggctcgcg ctcgcccgcc tcgcgcgcca gcccgagact ccgcgaggt cccgagcttt   | 240 |
| cgcccgacga tccgcgcggc ctcttgacc tgccgcagg catgtttcg cagctggtgg    | 300 |
| cccaaatgt tctgctgac gatggcccc tgagctggt cagtgacca ggcctggcag      | 360 |
| gcgtgtccct gacggggggc ctgagctaca aagaggacac gaaggagctg gtggtggcca | 420 |
| aggctggagt ctactatgtc ttctttcaac tagagctcgc gcgctggtg gccggcgagg  | 480 |
| gtcaggctc cgtttcaact gcgctgcacc tgcagccact gcgctctgct gctggggccg  | 540 |
| ccgccttggc tttagacctg gacctgccac ccgctctcct cgaggctcgg aactcggcct | 600 |
| tcggtttcca gggccgcttg ctgcacctga gtgcgggcca gcgctgggc gtccatcttc  | 660 |

|             |             |            |             |             |             |      |
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| tcttccgggt  | gacccccgaa  | atcccagccg | gactcccttc  | accgaggtcg  | gaataacgcc  | 780  |
| cagcctgggt  | gcagcccacc  | tggacagagt | ccgaatccta  | ctccatcctt  | catggagacc  | 840  |
| cctgggtgctg | ggctccctgct | gctttctcta | cctcaagggg  | cttggcaggg  | gtccctgctg  | 900  |
| ctgacctccc  | cttgaggacc  | ctctcaccc  | actccttccc  | caagtggac   | cttgatattt  | 960  |
| attctgagcc  | tgagctcaga  | taatatatta | tatatattat  | atatatatat  | atatttctat  | 1020 |
| ttaaagagga  | tcctgagttt  | gtgaatggac | ttttttagag  | gagttgtttt  | gggggggggg  | 1080 |
| tcttcgacat  | tgccgaggct  | ggctctgaac | tcctgggactt | agacgatcct  | cctgcctcag  | 1140 |
| cctcccaagc  | aactgggatt  | catcctttct | attaattcat  | tgtacttatt  | tgccattttg  | 1200 |
| tgtgtattga  | gcactctgaa  | tgtgccagca | ttgtgcccg   | gctagggggc  | tatagaaaca  | 1260 |
| tctagaaata  | gactgaaaga  | aaatctgagt | tatggtaata  | cgtgagggaat | ttaaagactc  | 1320 |
| atccccagcc  | tccacctctc  | gtgtgatact | tgggggctag  | cttttttctt  | tctttctttt  | 1380 |
| ttttgagatg  | gtcttgttct  | gtcaaccagg | ctagaatgca  | gcggtgcaat  | catgagtcaa  | 1440 |
| tgacgctcc   | agcctcgacc  | ccccgaggct | caggtgatcc  | tcccatctca  | gcctctcgag  | 1500 |
| tagctgggac  | cacagtgtgt  | tgccaccaca | cttggtcaac  | tttttaattt  | ttttgctggag | 1560 |
| acggtattgc  | tatgttgcca  | aggttggtta | catgccagta  | caatttataa  | taaacactca  | 1620 |
| tttttctcta  | aaaaaaaaaa  | aaaaa      |             |             |             | 1645 |

<210> 48

<211> 6640

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006047.4| RNA binding motif protein 12 (RBM12), transcript variant 1, mRNA

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| <400> 48    |            |            |            |            |             |     |
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| ggaagccggt  | cgggctgggg | ctgtcgccg  | cggggcggag | gcactcgcgc | gggggggtaat | 120 |
| tcggggctctg | ggttctgggt | ccgcgcagct | ttccccgtct | aaaagttggt | tttaattggt  | 180 |
| tgccacaggg  | attgacttgg | cctctacttc | ttgttaagga | aattcatctc | ttgttttatc  | 240 |
| aggtgtgtgt  | ggtttcagcg | cagcatggct | gtggtcatcc | gtttgcaagg | tctcccaatt  | 300 |
| gtggcgggga  | ccatggacat | tcgccacttc | ttctctggat | tgaccattcc | tgatgggggc  | 360 |
| gtgcatattg  | tagggggtga | actgggtgag | gctttcatcg | tttttgccac | tgatgaagat  | 420 |
| gcaaggcttg  | gtatgatgcg | cacaggtggt | acaattaaag | ggtcaaaagt | aacactattg  | 480 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
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| gccaaacttag | atataccacc  | agcaaatgcc  | agtagatcag | gaccaccacc | tagctcagga  | 600  |
| atgagtagca  | gggtaaactt  | gcccaaca    | gtatccaact | ttaataatcc | atcaccacgt  | 660  |
| gtagtactg   | ccaccacttc  | tgttcatgaa  | agcaacaaaa | acatacagac | attttcaca   | 720  |
| gccagcgtag  | gaacagctcc  | tccaaatatg  | ggggcttctt | ttgggagccc | aacgtttagc  | 780  |
| tcaactgttc  | caagcacagc  | ctctccaatg  | aacacagctc | cgccgccacc | aattcctcca  | 840  |
| attccagcga  | tgccatctct  | gccaccaatg  | ccatccattc | ccccaaatcc | agttcctcct  | 900  |
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| agcaaatact gccttggcat cactcagcag aggtttttgt ttataaagat gaagtcttga  | 6600 |
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<211> 3680

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_006644.2| heat shock 105kDa/110kDa protein 1 (HSPH1), mRNA

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| agtgaggcag gcaaccgag gtgcggagcg acctcggag gctgagcccc gctttctccc    | 180  |
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| agaacgcggc cagggcagaa agcggcgcca ggagaagcag gcagggggcc ggaggacgca  | 360  |
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| taagacttat gaatgacatg acagctgttg ctttgaatta cggaatttat aagcaggatc  | 960  |
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| ctgcacagaa | agatggagaa  | aaatctagag | taaaagtcaa  | agtcgcagtc  | aacacccatg  | 1860 |
| gcattttcac | catctctacg  | gcattctatg | tggagaaagt  | cccaactgag  | gagaatgaaa  | 1920 |
| tgtcttctga | agctgacatg  | gagtgtctga | atcagagacc  | accagaaaac  | ccagacactg  | 1980 |
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| ctcaacaac  | ctcacagtct  | cccccttcac | ctgaacttac  | ctcagaagaa  | aacaaaatcc  | 2100 |
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<211> 3349

<212> DNA

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<220>

<223> NM\_004602.1| staufer, RNA binding protein (Drosophila) (STAU), transcript variant T4, mRNA

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| cttctcttcc  | ctcctcgccg ccaccgccca ggaccgccgg ccgggggacg agtccggagc 240   |
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| gtgatctcgg  | ctcactgcaa cctccacctc ccaggctcag gattttccca cttcagccctc 360  |
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| tttaccatt   | tccagtcca cttttacttt atcaagtgga actttctgtg ggaggacagc 660    |
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| cagttgaacg  | agtaaacct  | agaatcaaaa  | agaaaacaaa | acccatagtc | aagccacaga | 1080 |
| caagcccaga  | atatggccag | gggatcaatc  | cgattagccg | actggcccg  | atccagcagg | 1140 |
| caaaaaagga  | gaaggagcca | gagtacacgc  | tcctcacaga | gcgaggcctc | ccgcgcgcga | 1200 |
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| gtaataaaga  | ggatgagttc | aggatgcctt  | atctaagtca | tcagcagctg | cctgctggaa | 1500 |
| ttcttcccat  | ggtgcccgag | gtcgccag    | ctgtaggagt | tagtcaagga | catcacacca | 1560 |
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| ttgtatctct  | tatcaattgc | tcctctcagc  | cacctctgat | cagccatggt | atcggcaagg | 1860 |
| atgtggagtc  | ctgccatgat | atggctgcgc  | tgaacatctt | aaagtgtctg | tctgagttgg | 1920 |
| accaacaaag  | tacagagatg | ccaagaacag  | gaaacggacc | aatgtctgtg | tgtgggaggt | 1980 |
| gctgaacctt  | ttctggccat | gaaccattat  | aaaatcccaa | catatatact | gaaaatactg | 2040 |
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| atccacaccc  | tgggcacctc | cgtgtttggt  | cttttttttc | ccctgtgtga | aagaagaaac | 2340 |
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| accttgaata agtctccac agttgtataa attggacaat ttaggaattt taaactttag   | 2880 |
| atgatcattt ggttcattt ttatttcatt tttatttttg ttaatgcaaa caggacttaa   | 2940 |
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| agaatgacct acgtttctgt atacagctgt gttgcttttg atgtgtgttt actgtacaca  | 3180 |
| gaagtgtgtg cactgaggct ctgctgtgtg tccgtatgga aaacctggtg gccctgcgag  | 3240 |
| ttaagtactg ctccattca ttgtttacgc tggaaatttt ctccccatgg aatgtaagta   | 3300 |
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<210> 51

<211> 402

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_021246.2| lymphocyte antigen 6 complex, locus G6D (LY6G6D), transcript variant 1, mRNA

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| acctgtggcg agggcgagcc ccagccaggc ctggaacaga tcaagctacc tggaaacccc | 180 |
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| gagacagagt cgtgtggaga cgtgacttat ccagcccaca gggactgcta cctgggagac | 300 |
| ctgtgcaaca gcgccgtggc aagccatgtg gccctcgag gcattttggc tgcagcagct  | 360 |
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<210> 52

<211> 3248

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_007236.3| calcium binding protein P22 (CHP), mRNA

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| tttttttttt tttttgagac agagtcttgc tctgtcaccg aggctggagt gcagtgggtgc | 1920 |
| gatcgctcac tgcaacctca gcctcctgga tttaagtgat tctcctgcct cagcctccca  | 1980 |
| agtagctggg attacagggtg tgcaccacca tgcccggcta attttttgta ttttttagtg | 2040 |
| agacagggtt tcaccatggtt ggccaggctg gtctcgaact cctgacctcg tgatccgcct | 2100 |
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<210> 53

<211> 3098

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003671.2| CDC14 cell division cycle 14 homolog B (S. cerevisiae) (CDC14B), transcript variant 1, mRNA

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| agtttgaata | atgaactttg | agtttgggtg | caagcaaagt | actcagagaa  | gggtccagct  | 2040 |
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| cctgcggggc | gccggtgaaa | taccactact | ctgactgttt | tttactgac   | ccggtgaggc  | 3060 |
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<210> 54

<211> 7850

<212> DNA

<213> Homo sapiens

<220>

<223> XM\_372063.2| PREDICTED: similar to epiplakin (LOC389697), mRNA

<400> 54

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| gtgtatgtgg | aggcctcggg | ccaggcccag | agtgtctacg | ccgcatgga  | gcagggcctc  | 120 |
| ctgcctgctg | ggctcgggca | ggctctgcta | gaggcccagg | cagccactgg | gggcctgggtg | 180 |
| gacctcgccc | ggggccagct | gctccctgtg | tccaaggccc | tgacagagg  | tctggtgggg  | 240 |

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<220>

<223> NM\_012408.3| protein kinase C binding protein 1 (PRKCBP1), transcript variant 2, mRNA

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| aataaatcca  | gttgaggagc  | cagtgatgag  | aagaggggat | cgacacgttc | cgatcacaac  | 3480 |
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| tttgactgca  | gactgttcac  | ccacacgagc  | cctgtgcttt | tggtgtaaat | aatgtacaat  | 3780 |

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| tattaaaaa   | aaaaaaagaa | aaagaaaac  | gatttaaaaa | aaaaaaaaa  | agcaaccaac | 3900 |
| cccaacaaca  | aaaaagaatg | ttttggtatt | ggagaaggga | tggtcagta  | gcctgtctgt | 3960 |
| cacacgacgg  | aatggatact | ggggccgggg | accactttca | tactcacgtc | ctcatccttg | 4020 |
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| acgcagagga  | cgtttgagtc | tgggatgaag | catgtacgta | ttatttatat | gatggaattt | 4500 |
| cacgttttta  | tgtaagcatg | aaacacaggc | agtatgagag | aaagcaaggc | ccgtcatgct | 4560 |
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<210> 58

<211> 2069

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003270.2| transmembrane 4 superfamily member 6 (TM4SF6), mRNA

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| tattttctcg | atcactggcg | 240 |
| ggagaattac | ttttctcttt | 300 |
| tactgtgacc | gtcattatct | 360 |
| tgcatggatg | ctaaaactgt | 420 |
| cgctgccatc | gtaggatttg | 480 |
| tgagaaggct | ttgaagcagt | 540 |
| gatccaaaat | acgtttgcat | 600 |
| ttattactca | gaaaaaggat | 660 |



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| gtcagaaatg ggagtcgttg caggaatttc ctttggagtt gcttgcttcc aactgattgg  | 780  |
| aatctttctc gcctactgcc tctctcgtgc cataacaaat aaccagtatg agatagtgtg  | 840  |
| acccaatgta tctgtggggc tattcctctc tacctttaag gacatttagg gtccccctg   | 900  |
| tgaattagaa agttgcttgg ctggagaact gacaacacta ctactgata gacacaaaaa   | 960  |
| ctacaccagt aggttgattc aatcaagatg tatgtagacc taaaactaca ccaataggct  | 1020 |
| gattcaatca agatccgtgc tcgcagtgagg ctgattcaat caagatgtat gtttgctatg | 1080 |
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| aagtataact cttatacaat aaatactgct ttcccttaaa aagatcggtg ttaaattaac  | 1860 |
| ttgtagaaaa tctgctgtaa tggttgttgt tttccactga gaaagctaag ccctacattt  | 1920 |
| ctattcagag tactgttttt agatgtgaaa tataagcctg cggccttaac tctgtattaa  | 1980 |
| aaaaaatggt tttgtttaaa aaaaactggt cccataggtg cagcaaacca ccatggcaca  | 2040 |
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<210> 59

<211> 2402

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_021200.1| plectstrin homology domain containing, family B (evectins) member 1 (PLEKHB1), mRNA

<400> 59

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| tcctgtcctg | cccccgcaac | ctgccccga  | ttccactccg | ggaacctcgg  | cgatgtctgag | 180  |
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| ttggaaggcg | tgggaggagc | ctggagaaag | aggcgacctt | ccttggggtc  | tgtgcgctcc  | 300  |
| ctccttgcct | ccccctccag | cctcccaact | ggtagcacct | tcctgatccc  | cttatctcta  | 360  |
| aggcgctcag | ggaatagccc | cgctgcggga | gccttctggg | aaatgctgcc  | ctggccaccc  | 420  |
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| taaggttgag | aggcggtatc | gggtgcgcgt | ctacagcccc | taccaagact  | actacagagt  | 960  |
| gggtgcccc  | aatgcacacg | aggccacgta | tgtccgcagc | tactacggac  | cgccctacgc  | 1020 |
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| aaacaaggac | ttgacaaaag | tgaagagtta | tcagtccttt | gacaaggaca  | ggtggggcag  | 1620 |
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| accgtggtgg | gccttcaagc | taaggagctt | cctaggtgaa | aggggagatg  | tgagccttct  | 1800 |
| ctggagggaa | gtttcatgat | tgcatctata | atgaatatat | tgctgttttt  | gtgaatactg  | 1860 |
| acacatgtcc | atacctaaaa | cactcctgag | ttaagtccca | tccttcccac  | aaacagcttc  | 1920 |

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| ctggctggta cccatgataa caattgagct gaacctgggg acccttgggt ggggaacagg  | 1980 |
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| accaggagct cggccctctc ttatagctg tgactgtcac cctctcaggc tttgtctcat   | 2100 |
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<211> 2856

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_003661.2| apolipoprotein L, 1 (APOL1), transcript variant 1,  
mRNA

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| gccttgacaa attgaaggag gtgagggaggt ttttgggtga gaacatatcc aactttcttt | 960 |

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 <213> Homo sapiens  
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 <223> NM\_002164.3| indoleamine-pyrrole 2,3 dioxygenase (INDO), mRNA

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gatttaatga atttctgaa gactgtaaga agtacaactg agaaatccct tttgaaggaa      1320
ggttaatgta acccaacaag agcacatttt atcatagcag agacatctgt atgcattcct      1380
gtcattaccc attgtaacag agccacaaac taatactatg caatgtttta ccaataatgc      1440

```

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| aatacaaaag | acctcaaaat | acctgtgcat | ttctttagg  | aaaacaaca  | aaggaatta  | 1500 |
| tgtgtaatta | tactagaagt | tttgtaatct | gtatcttacc | attggaataa | aatgacattc | 1560 |
| aataaataaa | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | 1620 |
| aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | aaaaa      |            |            | 1655 |

<210> 62

<211> 2242

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_021784.3| forkhead box A2 (FOXA2), transcript variant 1, mRNA

|            |            |            |
|------------|------------|------------|
| <400> 62   |            |            |
| cccgccact  | tccaactacc | gcctccggcc |
| gggagagggg | gagagagggg | gtggagccca |
| aaaagagggg | gggggtggg  | ggtgattgct |
| ctgccatgca | ctcggcttcc | agtagctggt |
| ccgactggag | cagctactat | gcagagcccg |
| ccggcctggg | gatgaacg   | atgaacacgt |
| gcggtctggg | caacatgagc | gcgggctcca |
| tgagcccgct | cctggcgggg | atgtccccg  |
| cggccggggc | ggcggcggtg | gcgggcatgg |
| tcggggggga | ggcggcggtg | gcgggcatgg |
| tgagcccat  | gtacgggagc | gcgggcatgg |
| gcagctacac | gcacgcaaa  | ccgccctact |
| agcagagccc | caacaagatg | ctgacgctga |
| tccccttcta | ccggcagaac | cagcagcgct |
| tcaacgactg | tttcctgaag | gtgccccgct |
| ggaccttgca | ccctgactcg | ggcaacatgt |
| agcgcttcaa | gtgcgagaag | cagctggcgc |
| gcaagaaggc | ggcgcggg   | gcccaggcct |
| cggcctccga | gactccggcg | ggcaccgagt |
| agcacaagcg | agggggcctg | ggagagctga |
| cagagccggc | gccctctccc | gggcagcagc |

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| cccaccaccc  | gggcctgccg  | cctgaggccc | acctgaagcc  | ggaacaccac  | tacgccttca  | 1320 |
| accaccggtt  | ctccatcaac  | aacctcatgt | cctcggagca  | gcagaccac   | cacagccacc  | 1380 |
| accaccacca  | accccacaaa  | atggacctca | aggcctacga  | acaggtgatg  | cactaccccc  | 1440 |
| gctacgggtc  | ccccatgcct  | ggcagcttgg | ccatggggccc | ggtcacgaac  | aaaacggggc  | 1500 |
| tgagcgcttc  | gcccctggcc  | gcagatacct | cctactacca  | gggggtgtac  | tcccggccca  | 1560 |
| ttatgaactc  | ctcttaagaa  | gacgacggct | tcaggcccgg  | ctaactctgg  | caccccggtat | 1620 |
| cgaggacaag  | tgagagagca  | agtgggggtc | gagactttgg  | ggagacgggtg | ttgcagagac  | 1680 |
| gcaagggaga  | agaaatccat  | aacaccccca | ccccaacacc  | cccaagacag  | cagtcttctt  | 1740 |
| caccgcgtgc  | agccgtttcg  | tcccaaacag | agggccacac  | agatacccca  | cgttctatat  | 1800 |
| aaggaggaaa  | acgggaaaga  | atataaagtt | aaaaaaaaagc | ctccgggttc  | cactactgtg  | 1860 |
| tagactcctg  | cttcttcaag  | cacctgcaga | tcttgatttt  | ttgttgtgtg  | ttgttctcct  | 1920 |
| ccattgctgt  | tgttgcaggg  | aagtcttact | taaaaaaaaa  | aaaaaatttt  | gtgagtgtact | 1980 |
| cgggtgtaaaa | ccatgtagtt  | ttaacagaac | cagaggggtg  | tactattgtt  | taaaaacagg  | 2040 |
| aaaaaaaaata | atgtaagggt  | ctgttgtaaa | tgaccaagaa  | aaagaaaaaa  | aaagcattcc  | 2100 |
| caatcttgac  | acgggtgaaat | ccaggtctcg | ggtccgatta  | atttatgggt  | tctgcgtgct  | 2160 |
| ttatttatgg  | cttataaatg  | tgtattctgg | ctgcaagggc  | cagagtcca   | caaatctata  | 2220 |
| ttaaagtgtt  | atacccggtt  | tt         |             |             |             | 2242 |

<210> 63

<211> 1047

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_033423.2| granzyme H (cathepsin G-like 2, protein h-CCPX)  
(GZMH), mRNA

|             |            |  |     |
|-------------|------------|--|-----|
| <400> 63    |            |  |     |
| ggagtcaaca  | ccaacagctc | tgacctgggc agccttctctg agaaaatgca gccattcctc | 60  |
| ctcctgttgg  | cctttcttct | gaccctggg gctgggacag aggagatcat cgggggccat   | 120 |
| gaggccaagc  | cccactcccc | ccctacatg gcctttgttc agtttctgca agagaagagt   | 180 |
| cgggaagagt  | gtggcggcat | cctagtgaga aaggactttg tgctgacagc tgctcactgc  | 240 |
| caggggaagct | ccataaatgt | caccttgggg gccacaata tcaaggaaca ggagcggacc   | 300 |
| cagcagttta  | tccctgtgaa | aagaccatc cccatccag cctataatcc taagaacttc    | 360 |
| tccaacgaca  | tcattgtact | gcagctggag agaaaggcca agtgaccac agctgtgcgg   | 420 |

|            |            |            |            |             |             |      |
|------------|------------|------------|------------|-------------|-------------|------|
| cctctcaggc | tacctagcag | caaggcccag | gtgaagccag | ggcagctgtg  | cagtggtggct | 480  |
| ggctgggggt | atgtctcaat | gagcacttta | gcaaccacac | tgcaggaagt  | gttgctgaca  | 540  |
| gtgcagaagg | actgccagtg | tgaacgtctc | ttccatggca | attacagcag  | agccactgag  | 600  |
| atttgtgtgg | gggatccaaa | gaagacacag | accggtttca | aggggggactc | cggggggccc  | 660  |
| ctcgtgtgta | aggacgtagc | ccaaggtatt | ctctcctatg | gaaacaaaaa  | agggacacct  | 720  |
| ccaggagtct | acatcaaggt | ctcacacttc | ctgccctgga | taaagagaac  | aatgaagcgc  | 780  |
| ctctaacagc | aggcatgaga | ctaaccttcc | tctgggcctg | accatctctg  | ggacagaggc  | 840  |
| aagaatcccc | aaggggtggg | cagtcagggt | tgcaggactg | taataaatgg  | atctctggty  | 900  |
| tagaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 960  |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 1020 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaa    |            |             |             | 1047 |

<210> 64

<211> 5243

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001165.3| baculoviral IAP repeat-containing 3 (BIRC3), transcript variant 1, mRNA

|            |            |   |
|------------|------------|---|
| <400> 64   |            |   |
| agcgtgagac | tcgcgccctc | cggcacggaa aaggccaggc gacaggtgtc gcttgaaaag 60  |
| actgggcttg | tccttgcctg | tgcatgcgtc gtcggcctct gggcagcagg ttacaaaagg 120 |
| aggaaaacga | cttcttctag | attttttttt cagttttctt tataaatcaa aacatctcaa 180 |
| aatggagacc | taaaatcctt | aaagggactt agtctaattc cgggaggtag ttttgtgcat 240 |
| gggtaaacaa | attaagtatt | aactggtggt ttactatcca aagaatgcta attttataaa 300 |
| catgatcgag | ttatataaag | tataccataa tgagtttgat ttgtaatttg atttgtggaa 360 |
| ataaaggaaa | agtgattcta | gctggggcat attgttaaa ctttttttcc agagtgtggc 420  |
| aggcagtcct | ctactggcac | attctcccat tatgtagaat agaaatagta cctgtgtttg 480 |
| ggaaagattt | taaaatgagt | gacagttatt tggaacaaag agctaataat caatccactg 540 |
| caaatataag | aaacatgcag | atgaaagttt tgacacatta aaatacttct acagtgacaa 600 |
| agaaaaatca | agaacaaagc | tttttgatat gtgcaacaaa tttagaggaa gtaaaaagat 660 |
| aatgtgatg  | attggtcaag | aaattatcca gttatttaca aggcactga tattttaaac 720  |
| gtccaaaagt | ttgttttaaa | gggctgttac cgctgagaat gatgaggatg agaatgatgg 780 |
| ttgaaggtta | catttttaga | aatgaagaaa cttagaaaat taatataaag acagtgatga 840 |



|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| atacaagaa  | gatttttata | acaatgtgta  | aaattttttg  | ccagggaaag  | gaatattgaa  | 900  |
| gttagatata | attacttacc | tttgagggaa  | ataattgttg  | gtaatgagat  | gtgatgtttc  | 960  |
| tcctgccacc | tggaaacaaa | gcattgaagt  | ctgcagtgtga | aaagcccaac  | gtctgtgaga  | 1020 |
| tccaggaaac | catgcttgca | aaccactggt  | aaaaaaaaaa  | aaaaaaaaaa  | aaaaagcca   | 1080 |
| cagtgacttg | cttattggtc | attgctagta  | ttatcgactc  | agaacctctt  | tactaatggc  | 1140 |
| tagtaaatca | taattgagaa | attctgaatt  | ttgacaaggt  | ctctgctggt  | gaaatggtaa  | 1200 |
| atttattatt | ttttttgtca | tgataaattc  | tggttcaagg  | tatgctatcc  | atgaaaataat | 1260 |
| ttctgaccaa | aactaaattg | atgcaatttg  | attatccatc  | ttagcctaca  | gatggcatct  | 1320 |
| ggtaactttt | gactgtttta | aaaaataaat  | ccactatcag  | agtagatttg  | atgttggtct  | 1380 |
| cagaaacatt | tagaaaaaca | aaagtcaaaa  | aatgttttca  | ggaggtgata  | agttgaataa  | 1440 |
| ctctacaatg | ttagtctctt | gagggggaca  | aaaaatttaa  | aatctttgaa  | aggtcttatt  | 1500 |
| ttacagccat | atctaaatta | tcttaagaaa  | atttttaaca  | aagggaaatga | aatatatatc  | 1560 |
| atgattctgt | ttttccaaaa | gtaacctgaa  | tatagcaatg  | aagttcagtt  | ttgttattgg  | 1620 |
| tagtttgggc | agagtctctt | tttgagcac   | ctgtgtgcta  | ccataattac  | agaggacatt  | 1680 |
| tccatgttct | agccaagtat | actattagaa  | taaaaaaact  | taacattgag  | tgtcttcaac  | 1740 |
| agcatgaaac | tgagtcctaa | agaccaaatg  | aacaacaca   | ttaatctctg  | attatttatt  | 1800 |
| ttaaatagaa | tatttaattg | tgtgaagtct  | aatagtatca  | ttatacttaa  | gcaatcatat  | 1860 |
| tcctgatgat | ctatgggaaa | taactattat  | ttaattaata  | ttgaaaccag  | gttttaagat  | 1920 |
| gtgttagcca | gtcctgttac | tagtaaatct  | ctttatttgg  | agagaaattt  | tagattgttt  | 1980 |
| tgttctcctt | attagaagga | ttgtagaaag  | aaaaaaatga  | ctaattggag  | aaaaattggg  | 2040 |
| gatatatcat | atttcactga | attcaaaaatg | tcttcagttg  | taaatcttac  | cattattttta | 2100 |
| cgtacctcta | agaataaaaa | gtgcttctaa  | ttaaaaatag  | atgtcattaa  | ttatgaaata  | 2160 |
| cttcttgata | acagaagttt | taaaaatagcc | atcttagaat  | cagtgaataa  | tggtaatgta  | 2220 |
| ttattttcct | cctttgagtt | aggtcttgtg  | cttttttttc  | ctggccacta  | aatttcacaa  | 2280 |
| tttccaaaaa | gcaaaaataa | catattctga  | atatttttgc  | tgtgaaacac  | ttgacagcag  | 2340 |
| agctttccac | catgaaaaga | agcttcatga  | gtcacacatt  | acatctttgg  | gttgattgaa  | 2400 |
| tgccactgaa | acattctagt | agcctggaga  | agttgacctc  | cctgtggaga  | tgccctgcat  | 2460 |
| taaatggcat | cctgatggct | taatacacat  | cactcttctg  | tgaaggggtt  | taattttcaa  | 2520 |
| cacagcttac | tctgtagcat | catgtttaca  | ttgtatgtat  | aaagattata  | caaaggtgca  | 2580 |
| attgtgtatt | tcttccttaa | aatgtatcag  | tataggattt  | agaatctcca  | tgttgaaact  | 2640 |
| ctaaatgcat | agaataaaaa | ataataaaaa  | atttttcatt  | ttggcttttc  | agcctagtat  | 2700 |
| taaaactgat | aaaagcaaag | ccatgcacaa  | aactacctcc  | ctagagaag   | gctagtcctt  | 2760 |

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| tttcttcccc | attcatttca  | ttatgaacat  | agtagaaaac | agcatattct  | tatcaaattt  | 2820 |
| gatgaaaagc | gccaacacgt  | ttgaactgaa  | atacgacttg | tcattgtgaac | tgtaccgaat  | 2880 |
| gtctacgtat | tccacttttc  | ctgctggggt  | tcctgtctca | gaaaggagtc  | ttgctcgtgc  | 2940 |
| tggtttctat | tacactgggt  | tgaatgacaa  | ggcacaatgc | ttctgtttgtg | gcctgatgct  | 3000 |
| ggataactgg | aaaagaggag  | acagtcctac  | tgaaaagcat | aaaaagttgt  | atcctagctg  | 3060 |
| cagattcggt | cagagtctaa  | attccggtaa  | caacttgaa  | gctacctctc  | agcctacttt  | 3120 |
| tcctttctca | gtaacaaatt  | ccacacactc  | attacttccg | ggtacagaaa  | acagtggtata | 3180 |
| tttccgtggc | tcttattcaa  | actctccatc  | aaatcctgta | aactccagag  | caaatcaaga  | 3240 |
| tttttctgcc | ttgatgagaa  | gttccctacca | ctgtgcaatg | aataacgaaa  | atgccagatt  | 3300 |
| acttactttt | cagacatggc  | cattgacttt  | tctgtcccca | acagatctgg  | caaaagcagg  | 3360 |
| cttttactac | ataggacctg  | gagacagagt  | ggcttgcttt | gcctgtgggtg | gaaaattgag  | 3420 |
| caattgggaa | cgaaggata   | atgctatgtc  | agaacacctg | agacattttc  | ccaaatgcc   | 3480 |
| atttatagaa | aatcagcttc  | aagacacttc  | aagatacaca | gtttctaata  | tgagcatgca  | 3540 |
| gacacatgca | gcccgcttta  | aaacattctt  | taactggccc | tctagtgttc  | tagttaatcc  | 3600 |
| tgagcagctt | gcaagtgcgg  | gtttttatta  | tgtgggtaac | agtgatgatg  | tcaaatgctt  | 3660 |
| ttgctgtgat | ggtggactca  | ggtgttgagg  | atctggagat | gatccatggg  | ttcaaatgct  | 3720 |
| caagtgggtt | ccaagtggtg  | agtacttgat  | aagaattaaa | ggacaggagt  | tcattccgtca | 3780 |
| agttcaagcc | agttaccctc  | atctacttga  | acagctgcta | tccacatcag  | acagcccagg  | 3840 |
| agatgaaaat | gcagagtcac  | caattatcca  | ttttgaacct | ggagaagacc  | attcagaaga  | 3900 |
| tgcaatcatg | atgaatactc  | ctgtgattaa  | tgtgcccgtg | gaaatgggct  | ttagtagaag  | 3960 |
| cctggtaaaa | cagacagttc  | agagaaaaat  | cctagcaact | ggagagaatt  | atagactagt  | 4020 |
| caatgatctt | gtgttagact  | tactcaatgc  | agaagatgaa | ataaggggag  | aggagagaga  | 4080 |
| aagagcaact | gaggaaaaag  | aatcaaatga  | tttattatta | atccggaaga  | atagaatggc  | 4140 |
| actttttcaa | catttgactt  | gtgtaattcc  | aatcctggat | agtctactaa  | ctgccggaat  | 4200 |
| tattaatgaa | caagaacatg  | atgttattaa  | acagaagaca | cagacgtctt  | tacaagcaag  | 4260 |
| agaactgatt | gatacgattt  | tagtaaaagg  | aatatttgca | gccactgtat  | tcagaaaactc | 4320 |
| tctgcaagaa | gctgaagctg  | tgtttataga  | gcattttatt | gtgcaacagg  | acataaaaata | 4380 |
| tattcccaca | gaagatgttt  | cagatctacc  | agtggagaaa | caattgcgga  | gactacaaga  | 4440 |
| agaaagaaca | tgtaaagtgt  | gtatggacaa  | agaagtgtcc | atagtgttta  | ttccttgttg  | 4500 |
| tcatttagta | gtatgcaaag  | attgtgctcc  | ttctttaaga | aaggtgccta  | tttgtaggag  | 4560 |
| tacaatcaag | ggtacagttc  | gtacatttct  | ttcatgaaga | agaacccaaa  | catcgtctaa  | 4620 |
| actttagaat | taattttatta | aatgtattat  | aactttaact | tttatcctaa  | tttggtttcc  | 4680 |

|         |        |          |      |          |       |           |      |          |      |      |
|---------|--------|----------|------|----------|-------|-----------|------|----------|------|------|
| ttaaaat | ttttat | taactc   | aaaa | aacatt   | gttt  | tgtgta    | acat | atttat   | atat | 4740 |
| gtatcta | aac    | catatga  | aca  | tatatt   | tttt  | agaaact   | aaag | agaatga  | tag  | 4800 |
| ttatga  | acga   | aaaagag  | gta  | gcactaca | aa    | cacaatatt | c    | aatcaaa  | aatt | 4860 |
| tgaaatt | gta    | agtgaag  | taa  | aactta   | agat  | atttgag   | tta  | accttta  | aga  | 4920 |
| ttttgg  | catt   | gtacta   | atac | cgggaac  | atg   | aagccag   | gtg  | tggtgg   | tatg | 4980 |
| cccagg  | ctga   | ggcaag   | agaa | ttacttg  | agc   | ccaggag   | ttt  | gaatcc   | atcc | 5040 |
| actgag  | accc   | tgcttt   | taaa | aacaac   | aga   | acaaaa    | acaa | aacacc   | aggg | 5100 |
| ctgtct  | tttt   | tgatcag  | tgt  | cctata   | cac   | gaaggt    | gtgc | atatat   | gttg | 5160 |
| tagggac | atg    | gtgttt   | ttat | aaaga    | attct | gtgagaa   | aaa  | atttaata | aaa  | 5220 |
| ttactct | taaa   | aaaaaaaa | aaa  |          |       |           |      |          |      | 5243 |

<210> 65

<211> 3850

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005682.4| G protein-coupled receptor 56 (GPR56), transcript variant 1, mRNA

|          |      |          |      |         |      |          |      |          |      |     |
|----------|------|----------|------|---------|------|----------|------|----------|------|-----|
| <400>    | 65   |          |      |         |      |          |      |          |      |     |
| agactggg | tg   | cctgtgg  | ccc  | tgaggag | g    | tggaaggg | ga   | ggagcagg | cc   | 60  |
| aggccgg  | tga  | gggacct  | gcc  | cagacct | gga  | gggtctc  | gct  | ctgtcac  | aca  | 120 |
| cagtgg   | tgtg | atcttgg  | ctc  | atcgta  | acct | ccacctc  | ccg  | ggttca   | agtg | 180 |
| ctcagc   | ctcc | cgagtag  | ctg  | ggattac | agg  | tggtgact | tc   | caagagt  | gac  | 240 |
| gaaaat   | gact | ccccagt  | ctc  | tgctgc  | agac | gacactgt | tc   | ctgtgag  | tc   | 300 |
| ggtcca   | aggt | gcccac   | ggca | ggggcc  | acag | ggaagact | tt   | cgcttct  | gca  | 360 |
| ccagac   | acac | aggagc   | agc  | tccact  | acaa | acccac   | acca | gacctgc  | gca  | 420 |
| gaaact   | ccga | gaggcc   | ctca | cagtcca | tgc  | ccctttc  | ctc  | gcagccc  | acc  | 480 |
| atcctt   | ccct | gacccc   | aggg | gcctcta | cca  | cttctgc  | ctc  | tactgga  | aacc | 540 |
| gagatta  | cat  | cttctcta | tgt  | gcaagc  | gtga | cttcttg  | ctg  | agtgaca  | aag  | 600 |
| ccctct   | gctc | cagcacc  | agg  | aggagag | cct  | ggctcag  | ggc  | ccccgc   | gtgt | 660 |
| tgtcac   | ctcc | tggtgg   | agcc | ctcaga  | acat | cagcctg  | ccc  | agtgcc   | gcca | 720 |
| ctcctt   | ccac | agtcct   | cccc | acacgg  | ccgc | tcacaat  | gcc  | tcggtg   | gaca | 780 |
| caaaagg  | gac  | ctccag   | ctgc | tcagcca | gatt | cctgaag  | cat  | ccccaga  | aag  | 840 |

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| gccctcggt  | gcccccgcca | gccagcagtt  | gcagagcctg  | gagtcgaac   | tgacctctgt  | 900  |
| gagattcatg | ggggacatgg | tgctcttcga  | ggaggaccgg  | atcaacgcc   | cgggtgtggaa | 960  |
| gtccagccc  | acagccggcc | tccaggacct  | gcacatccac  | tccgggcagg  | aggaggagca  | 1020 |
| gagcgagatc | atggagtact | cggtgctgct  | gcctcgaaca  | ctcttcacaga | ggacgaagg   | 1080 |
| ccggagcggg | gaggctgaga | agagactcct  | cctggtggac  | ttcagcagcc  | aagccctggt  | 1140 |
| ccaggacaag | aattccagcc | aagtcctggg  | tgagaaggtc  | ttggggattg  | tgttacagaa  | 1200 |
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| gtcatctggt | ggagcaggaa | 120 |
| ccaggacttt | gccatgggct | 180 |
| gcggcggcgt | ccccaccggg | 240 |
| gcgtccagca | actccagcct | 300 |
| cctcctatat | ggaatcata  | 360 |
| atcatttgtc | ctcgggaggt | 420 |
| atcatctctc | gggagcaggc | 480 |
| agagaaagcc | agcggcaacc | 540 |
| ttaactaca  | ggctcttcca | 600 |
| attcatgata | tggtgacaga | 660 |
| tacatttcaa | aaatgacaac | 720 |
| agagaaaaag | tatccagaag | 780 |
| acacatgaag | aacacacagc | 840 |
| acacacaacg | acaaccactt | 900 |
| cgaggcccac | actggtgtga | 960 |

|             |            |             |            |            |             |      |
|-------------|------------|-------------|------------|------------|-------------|------|
| gtccggtgct  | cagactgtgg | attgaacgta  | cacaaacagt | gttccaagca | cgttcccaat  | 1020 |
| gactgccaac  | ctgatctcaa | gaggatcaag  | aaagtgtact | gttgtgacct | cacaacactt  | 1080 |
| gtgaaggctc  | acaacactca | gagacccatg  | gtggtagaca | tatgcattcg | ggaaattgaa  | 1140 |
| gcaagaggat  | taaaatcgga | aggcctttac  | agagtctctg | ggttcactga | acacattgaa  | 1200 |
| gatgtcaaaa  | tggcatttga | cagagatggt  | gaaaaggccg | atatactgc  | caatgtctat  | 1260 |
| ccagacataa  | acatcatcac | tggagccctt  | aaactgtatt | tcagagactt | acccatccct  | 1320 |
| gtcatcacat  | atgataccta | ttccaaattt  | atagatgcag | caaaaatctc | caatgcagat  | 1380 |
| gagaggctgg  | aagccgtcca | tgaagtgtctg | atgtctgtgc | ctcctgccca | ctatgaaacc  | 1440 |
| ctccggtacc  | taatgatcca | cctcaaaaag  | gttactatga | atgaaaaaga | caatttcatg  | 1500 |
| aatgcagaaa  | atctggggat | cggtgtttggg | ccactctga  | tgaggccccc | tgaggacagc  | 1560 |
| accctgacca  | ccctgcatag | tatgcggtac  | caaaagctga | ttgtgcagat | tttaatagaa  | 1620 |
| aacgaagacg  | ttttattcta | atccatcagg  | gaaatgagct | gaatggccca | gcaccatcaa  | 1680 |
| gttgacacag  | ctaaggataa | aacatttctt  | accacttgat | ttgttttcca | agcaagtgtc  | 1740 |
| agaatttgct  | ggactgcaga | ggatcgctga  | gtgggttact | gtgtctcata | gacatgcgcc  | 1800 |
| acctccacgt  | gagaacaagg | gtgaaggatga | gggaagcccc | tcaggttggg | tcttttgctg  | 1860 |
| tgctctctat  | gtatgtctgg | tttgctggaa  | gagtgattaa | tacatcttta | atttattaaa  | 1920 |
| aaacaatgta  | gacctttaa  | cttcagctctt | attgggaata | aaagggaact | taattcatal  | 1980 |
| agggtacttga | tacagtata  | cattttccac  | ttacaaaaag | aagacaattc | tgttaaataga | 2040 |
| aacgtgtatc  | gtaaaatgta | attttattta  | cccacgagaa | tgttgttatt | ttagcaatag  | 2100 |
| aactcaatgc  | agatgcattg | gttattacc   | tgtgtacctt | gtccctcatt | ttgtgtgtac  | 2160 |
| accctgaaaa  | agctgaccac | aatgcagta   | ttatcattga | catacctctg | tcc         | 2213 |

<210> 74

<211> 2201

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005520.1| heterogeneous nuclear ribonucleoprotein H1 (H) (HNRPH1), mRNA

<400> 74

|            |             |            |            |            |            |     |
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| tttttttttt | cgctcttagcc | acgcagaagt | cgcgtgtcta | gtttgtttcg | acgccggacc | 60  |
| gcgtaagaga | cgatgatgtt  | gggcacggaa | ggtggagagg | gattcgtggt | gaagggtccg | 120 |
| ggcttgccct | ggtcttgctc  | ggccgatgaa | gtgcagaggt | ttttttctga | ctgcaaaatt | 180 |
| caaaatgggg | ctcaaggat   | tcgtttcatc | tacaccagag | aaggcagacc | aagtggcgag | 240 |

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| gcttttgttg  | aacttgaatc  | agaagatgaa | gtcaaatagg | ccctgaaaaa | agacagagaa | 300  |
| actatgggac  | acagatatgt  | tgaagtattc | aagtcaaaca | acgttgaaat | ggattgggtg | 360  |
| ttgaagcata  | ctgggtccaaa | tagtcctgac | acggccaatg | atggctttgt | acggcttaga | 420  |
| ggacttcctt  | ttggatgtag  | caaggaagaa | attgttcagt | tcttctcagg | gttggaatc  | 480  |
| gtgccaaatg  | ggataacatt  | gccggtggac | ttccagggga | ggagtacggg | ggaggccttc | 540  |
| gtgcagtttg  | cttcacagga  | aatagctgaa | aaggctctaa | agaaacacaa | ggaagaata  | 600  |
| gggcacaggt  | atattgaaat  | ctttaagagc | agtagagctg | aagttagaac | tcattatgat | 660  |
| ccaccacgaa  | agcttatggc  | catgcagcgg | ccaggctcct | atgacagacc | tggggctggt | 720  |
| agaggggtata | acagcattgg  | cagaggagct | ggctttgaga | ggatgaggcg | tgtgtcttat | 780  |
| ggtggaggct  | atggaggcta  | tgatgattac | aatggctata | atgatggcta | tggatttggg | 840  |
| tcagatagat  | ttggaagaga  | cctcaattac | tgtttttcag | gaatgtctga | tcacagatac | 900  |
| ggggatggtg  | gctctacttt  | ccagagcaca | acaggacact | gtgtacacat | gcggggatta | 960  |
| ccttacagag  | ctactgagaa  | tgacatttat | aatttttttt | caccgctcaa | ccctgtgaga | 1020 |
| gtacacattg  | aaattgggtc  | tgatggcaga | gtaactgggt | aagcagatgt | cgagttcgca | 1080 |
| actcatgaag  | atgctgtggc  | agctatgtca | aaagacaaag | caaatatgca | acacagatat | 1140 |
| gtagaactct  | tcttgaattc  | tacagcagga | gcaagcgggt | gtgcttacga | acacagatat | 1200 |
| gtagaactct  | tcttgaattc  | tacagcagga | gcaagcgggt | gtgcttatgg | tagccaaatg | 1260 |
| atgggaggca  | tgggcttgtc  | aaaccagtcc | agctacgggg | gcccagccag | ccagcagctg | 1320 |
| agtggggggt  | acggaggcgg  | ctacggtggc | cagagcagca | tgagtggata | cgaccaagtt | 1380 |
| ttacaggaaa  | actccagtga  | ttttcaatca | aacattgcat | aggtaaccaa | ggagcagtg  | 1440 |
| acagcagcta  | ctacagtagt  | ggaagccgtg | catctatggg | cgtgaacgga | atgggagggg | 1500 |
| tgtctagcat  | gtccagtatg  | agtgggtgat | ggggaatgta | attgatcgtg | cctgatcact | 1560 |
| gactcttggg  | caaccttttt  | tttttttttt | ttttctttaa | gaaaacttca | gtttaacagt | 1620 |
| ttctgcaata  | caagcttggg  | atttatgctt | actctaagtg | gaaatcagga | ttgttatgaa | 1680 |
| gacttaaggc  | ccagtatatt  | tgaatacaat | actcatctag | gatgtaacag | tgaagctgag | 1740 |
| taaacataaa  | ctgttaaaat  | taagttccag | cttttctcaa | gttagttata | ggatgtactt | 1800 |
| aagcagtaag  | cgtattttag  | taaaagcagt | tgaattatgt | taaatgttgc | cctttgccac | 1860 |
| gttaaaattga | acactgtttt  | ggatgcatgt | tgaagacat  | gcttttattt | tttttgaata | 1920 |
| acaatatagg  | agctgtgtct  | actattaaaa | gtgaaacatt | ttggcatggt | tgtaatttct | 1980 |
| agtttcattt  | aataacctgt  | aaggcacgta | agtttaagct | tttttttttt | ttaagttaat | 2040 |
| gggaaaaatt  | tgagacgcaa  | taccaatact | taggattttg | gtcttggtgt | ttgatgaaa  | 2100 |
| ttctgaggcc  | ttgatttaaa  | tctttcattg | tattgtgatt | tccttttagg | tatatgtcgc | 2160 |

taagtgaaac ttgtcaaata aatcctcctt ttaaaaactg c

2201

<210> 75

<211> 1895

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004046.4| ATP synthase, H<sup>+</sup> transporting, mitochondrial F1 complex, alpha subunit, isoform 1, cardiac muscle (ATP5A1), nuclear gene encoding mitochondrial protein, transcript variant 2, mRNA

<400> 75

|                       |                                  |            |      |
|-----------------------|----------------------------------|------------|------|
| gtcttgacct tctttgcg   | tcggccattt tgtcccagtc agtccggagg | ctgcggctgc | 60   |
| agaagtaccg cctgcggagt | aactgcaaag atgctgtccg            | tgcgcggtgc | 120  |
| gtccgcgccc ttctcgcg   | ggcgggactg gtctccagaa            | atgctttggg | 180  |
| attgctgcaa ggaacttcca | tgcttctaac actcatcttc            | aaaagactgg | 240  |
| atgtcctcta ttcttgaaga | gcgtattcct ggagctgata            | cctctgttga | 300  |
| actggcgctg tcttaagtat | tggtgatggt attgcccgcg            | tacatgggct | 360  |
| caagcagaag aaatggtaga | gttttcttca ggcttaaagg            | gtatgtcctt | 420  |
| cctgacaatg ttggtgtgtg | cggttttggg aatgataaac            | taattaagga | 480  |
| gtgaagagga caggagccat | tgtggacggt ccagttgggt            | aggagctggt | 540  |
| gttgatgccc ttggtaatgc | tattgatgga aagggtccaa            | ttggttccaa | 600  |
| cgagttggct tgaagacccc | cggtatcatt cctcgaattt            | cagtcgggga | 660  |
| actggcatta aggctgtgga | tagcttgggt ccaattggtc            | gtggtcagcg | 720  |
| attggtgacc gacagactgg | gaaaacctca attgctattg            | acacaatcat | 780  |
| cgtttcaatg atggatctga | tgaagaagag aagctgtact            | gtatttatgt | 840  |
| caaaagagat ccactgttgc | ccagttgggt aagagactta            | cagatgcaga | 900  |
| tacaccattg tgggtgcg   | gcacgacctg gatgctgcc             | cacttcagta | 960  |
| tactctggct gttccatggg | agagtatttt agagacaatg            | gcaaacatgc | 1020 |
| tatgagcact tatccaaaca | ggctgttgct taccgtcaga            | tgtctctggt | 1080 |
| ccccctggtc gtgaggccta | tcctgggtgat gtgtctacc            | tacactcccg | 1140 |
| agagcagcca aaatgaacga | tgcttttggg ggtggctcct            | tgactgcttt | 1200 |
| gaaacacagg ctggtgatgt | gtctgcttac attccaaca             | atgtcatttc | 1260 |
| ggacagatct tcttggaaac | agaattgttc tacaagga              | tccgcctgc  | 1320 |
| ggtctgtctg tatctcgtg  | cggatccgct gcccaaacca            | gggctatgaa | 1380 |

|   |      |
|---|------|
| ggtaccatga agctggaatt ggctcagtat cgtgaggttg ctgcttttgc ccagttcggt | 1440 |
| tctgacctcg atgctgccac tcaacaactt ttgagtcgtg gcgtgcgtct aactgagttg | 1500 |
| ctgaagcaag gacagtattc tcccatggct attgaagaac aagtggctgt tatctatgcg | 1560 |
| ggtgtaaggg gatattctga taaactggag ccagcaaga ttacaaagt ttgagaatgct  | 1620 |
| ttcttgtctc atgtcgtcag ccagcaccaa gccttgttg gcactatcag ggctgatgga  | 1680 |
| aagatctcag aacaatcaga tgcaagctg aaagagattg taacaaattt ctggctgga   | 1740 |
| tttgaagctt aaactcctgt ggattcacat caaataccag ttcagttttg tcatgtttct | 1800 |
| agtaaatag ttccatttgt aaaaggggta ctctcatact ccttatgtac agaaatcaca  | 1860 |
| tgaaaaataa aggttccata atgcatagtt aaaaa                            | 1895 |

<210> 76

<211> 1290

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001970.3| eukaryotic translation initiation factor 5A (EIF5A), mRNA

|  |     |
|--|-----|
| <400> 76   |     |
| gcggcggcgg cggtagaggc ggcggcggcg gcggcagcgg gctcggaggc agcggttggg  | 60  |
| ctcgcggcga gcggacgggg tcgagtcagt gcgttcgcgc gagttggaat cgaagcctct  | 120 |
| taaaatggca gatgacttgg acttcgagac aggagatgca ggggcctcag ccaccttccc  | 180 |
| aatgcagtgc tcagcattac gtaagaatgg ctttgtgggt ctcaaaggcc ggccatgtaa  | 240 |
| gatcgtcag atgtctact cgaagactgg caagcacggc cagccaagg tccatctggt     | 300 |
| tggtattgac atctttactg ggaagaaata tgaagatac tgcccgtcaa ctcataatat   | 360 |
| ggatgtcccc aacatcaaaa ggaatgactt ccagctgatt ggcattccagg atgggtacct | 420 |
| atcactgtct caggacacgg gggagggtac agaggacctt cgtctccctg aggagacct   | 480 |
| tggaaggag attgagcaga agtacgactg tggagaagag atcctgatca cgggtctgtc   | 540 |
| tgcatgaca gaggaggcag ctgttgcaat caaggccatg gcaaaataac tggctcccag   | 600 |
| gatggcgggt gtggcagcag tgatcctctg aactgcaga ggccccctcc ccgagcctgg   | 660 |
| cctggctctg gcccggtctt aagctggact cctcctacac aatttatttg acgttttatt  | 720 |
| ttggttttcc cccccctc aatctgtcgg ggagccccct cccttcacct agctcccttg    | 780 |
| gccaggagcg agcgaagctg tggccttggg gaagctgccc tcctcttctc ccctcacact  | 840 |
| acagccctgg tgggggagaa ggggggtggg gctgcttgtg gtttagtctt ttttttttt   | 900 |
| tttttttttt ttttaaattc aatctggaat cagaagcgg tggattctgg caaatgttcc   | 960 |

|   |      |
|---|------|
| ttgtgcctc cccactcatc cctggtctgg tcccctgttg cccatagccc tttaccctga  | 1020 |
| gcaccacccc aacagactgg ggaccagccc cctcgcctgc ctgtgtctct ccccaaacc  | 1080 |
| ctttagatgg ggaggggaaga ggaggagagg ggaggggacc tgcctctcc tcaggcatct | 1140 |
| gggagggccc tgcccccatg ggctttaccc tcccctgcgg gctctctccc cgacacattt | 1200 |
| gttaaaatca aacctgaata aaactacaag tttaatatga aaaaaaaaaa aaaaaaaaaa | 1260 |
| aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa                                  | 1290 |

<210> 77

<211> 2512

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_005041.3| perforin 1 (pore forming protein) (PRF1), mRNA

|  |      |
|--|------|
| <400> 77   |      |
| ggctggtgca aggagccaca gtgggctgcc tggggggctg atgccacat tccaggagcc   | 60   |
| tcggtgaaga gaggatatcc atctgtgtag ccgcttctct atacgggatt ccagctccat  | 120  |
| ggcagcccg tctctctccc tgggcatcct tctctctgct ctgccccgc ccgtccctgc    | 180  |
| cccgctccac acagccgcac gctcagagt caagcgcagc cacaagtctg tgcctggtgc   | 240  |
| atggctggcc ggggaggggtg tggacgtgac cagcctccgc cgctcgggct ccttcccagt | 300  |
| ggacacacaa aggttcctgc gggccgacgg cacctgcacc ctctgtgaaa atgccctaca  | 360  |
| ggagggcacc ctccagcgcg tgcctctggc gctcaccaac tggcggggccc agggctctgg | 420  |
| ctgccagcgc catgtaacca gggccaaagt cagctccact gaagctgtgg cccgggatgc  | 480  |
| ggctcgtagc atccgcaacg actggaaggt cgggctggac gtgactccta agcccaccag  | 540  |
| caatgtgcat gtgtctgtgg ccggctcaca ctacagcga gccaaacttg cagcccagaa   | 600  |
| gaccaccag gaccagtaca gcttcagcac tgacacgggt gagtccgct tctacagttt    | 660  |
| ccatgtggta cacactcccc cgctgcaccc tgacttcaag agggccctcg gggacctgcc  | 720  |
| ccaccacttc aacgcctcca ccagcccgc ctacctcagg cttatctcca actacggcac   | 780  |
| ccacttcac cgggctgtgg agctgggtgg ccgcatactg gccctcactg cctctgcac    | 840  |
| ctgcgagctg gccctggaag ggctcacgga caacgagtg gaggactgcc tgactgtcga   | 900  |
| ggcccaggtc aacataggca tccacggcag catctctgcc gaagccaagg cctgtgagga  | 960  |
| gaagaagaag aagcacaaga tgacggcctc cttccaccaa acctaccggg agcgcacac   | 1020 |
| ggaagtgggtt ggcggccatc acacctccat taacgacctg ctgttcggga tccaggccgg | 1080 |

|  |      |
|--|------|
| gcccagcag tactcagcct gggtaaaactc gctgcccggc agccctggcc tgggtggacta | 1140 |
| caccctggaa cccctgcacg tgctgctgga cagccaggac ccgcgccggg aggcactgag  | 1200 |
| gagggccctg agtcagtacc tgacggacag ggctcgctgg agggactgca gccggccgtg  | 1260 |
| cccaccaggg cggcagaaga gccccgaga ccatgccag tgtgtgtgcc atggctcagc    | 1320 |
| ggtcaccacc caggactgct gccctcgga gaggggctg gccacgtgg aggtgacctt     | 1380 |
| catccaagca tggggcctgt ggggggactg gttcactgcc acggaatgct atgtgaagct  | 1440 |
| cttcttttgg ggccaggagc tgaggacgag caccgtgtgg gacaataaca accccatctg  | 1500 |
| gtcagtgcgg ctggattttt gggatgtgct cctggccaca ggggggcccc tgaggttgca  | 1560 |
| ggtctgggat caggactctg gcagggacga tgacctcctt ggcacctgtg atcaggctcc  | 1620 |
| caagtctggt tcccatgagg tgagatgcaa cctgaatcat ggccacctaa aattccgcta  | 1680 |
| tcattgccagg tgcttggccc acctgggagg aggcacctgc ctggactatg tcccccaat  | 1740 |
| gcttctgggg gagcctccag gaaaccggag tggggccgtg tggtgagaac agtgagcttg  | 1800 |
| gaaaggacca gtatgcttgg actgaagggg ttctcacagt gggagccagg gctgtcttcg  | 1860 |
| tattccatt agaccaagct tgtccaaccc gagggccgca tgcggcccag gatggcttgg   | 1920 |
| aatgcgcccc aacgcaaatt cgaaaacttt cttaaaacat tatgagtttc tttttgctat  | 1980 |
| tttttttttt tttttagctc atcggctatc gttagtgtca gtggatttta catgtggccc  | 2040 |
| aacacaattc ttcttccaac gtggcccaga gaagccaaaa gattggatac gcatacagca  | 2100 |
| gatggaaaag ggagattcag actgtttttc agggagggtg ctgggtttac acgctaattc  | 2160 |
| cgattcaccg tgtccaaact gcctaagccc tccgccattc tcaagccctg cagtcacagc  | 2220 |
| tacacagatc acagcttcag ccaggagctg ggcagaaggc caagggctg ttcccaccag   | 2280 |
| gctgctcagg gctggctctt taggaccctt cccttgagcc ctctatggtg tggcaaagcc  | 2340 |
| ttcattgctt taactggagc cccatcagct ccagctgctc tgtcttcttt gccacaatg   | 2400 |
| ctttgccct gagacaaatg gaggcctgtc ctgacctgtc tcacatgta catagcttga    | 2460 |
| taaagggccataaaatatga tgttatggtg aaaaaaaaaa aaaaaaaaaa aa           | 2512 |

<210> 78

<211> 4623

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_014965.2| OGT(O-Glc-NAC transferase)-interacting protein 106  
KDa (OIP106), mRNA

<400> 78

|  |    |
|--|----|
| gatgctgggc caggagcttt gtgtacacc ctcacttca gctgagccag ggcattgtctg | 60 |
|--|----|

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| cggccaggc  | cagggcgag   | tgtgtgccct | gggggccag  | gcctgcatgg | ctcctctggg | 120  |
| tagggggctg | ggggcacc    | caaggatggt | cccttaggg  | gatgttttg  | ctttggggg  | 180  |
| acttcagcaa | tgtccctg    | agacaaggg  | ggggaaga   | aatgtttga  | atacgactgc | 240  |
| caggatgaag | agaggaagc   | aaccacagg  | cagcatgaca | cccaggacct | cttggaagag | 300  |
| gttttatgtg | ctgaaagagt  | tgccagatg  | actaagacat | ataatgacat | agatgctgtc | 360  |
| actcggcttc | ttgaggagaa  | agagcgggat | ttagaattgg | ccgctcgcat | cggccagtcg | 420  |
| ttgttgaaga | agaacaagac  | cctaaccgag | aggaacgagc | tgctggagga | gcaggtggaa | 480  |
| cacatcagg  | aggaggtgtc  | tcagctccg  | catgagctgt | ccatgaagga | tgagctgctt | 540  |
| cagttctaca | ccagcgtc    | ggaggagagt | gagcccgagt | ccgtttgctc | aaccccgttg | 600  |
| aagaggaatg | agtcgtcc    | ctcagtcag  | aattactt   | atttgattc  | tcttcaaa   | 660  |
| aagctgaa   | accttga     | ggagaatgtt | gtacttcgat | ccgagggc   | ccagctga   | 720  |
| acagagacca | tcacctatga  | ggagaaggag | cagcagctgg | tcaatgactg | cgtgaaggag | 780  |
| ctgagggatg | ccaatgtcca  | gattgctagt | atctcagagg | aactggccaa | gaagacggaa | 840  |
| gatgctgccc | gccagcaaga  | ggagatcaca | cacctgctat | cgcaaatagt | tgatttgcat | 900  |
| aaaaaggcaa | aagcttgc    | agtggaaa   | gaagaacttg | tccagcatct | gggggctgct | 960  |
| aaggatgccc | agcggcagct  | cacagccgag | ctgctgagc  | tggaggacaa | gtacgcagag | 1020 |
| tgcatggaga | tgtctcatga  | ggcgcaggag | gagctgaaga | acctccggaa | caaaaccatg | 1080 |
| cccaatacca | cgtctcgg    | ctaccactca | ctgggctctg | ttcccatgga | tctcttggca | 1140 |
| gcagagattg | agggaacgat  | gcgcaaggag | ctgcagtgg  | aagagggcga | gtctccagac | 1200 |
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| gatgttgacc | tggacgaagt  | gtactgcctt | aacgactttg | aagaagatga | cacaggtgac | 1920 |
| cacatttctc | tcccacgcct  | agctacctcc | actccagttc | agcaccacga | gacctcaggt | 1980 |



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<211> 2657

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<213> Homo sapiens

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<223> NM\_017895.6| DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 (DDX27), mRNA

<400> 79

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| ttaatcggaa ccataggcga ggatgacgag gtgccgggtg agcccagatc tgactccggg  | 180 |
| gacgaggaag aggaggggccc cattgtgctg ggcagacgac aaaaagcttt ggggaagaac | 240 |
| cgcagtgtg atttcaaccc tgatttcggt ttactgaga aggaggggac gtacgatggc    | 300 |
| agctggggccc tggctgatgt catgagccaa ctcaagaaga agagggcagc cactacatta | 360 |
| gatgagaaga ttgagaaagt tcgaaagaaa aggaaaacag aggataaaga agccaagtct  | 420 |
| gggaagttag aaaaggagaa agaagcaaag gaaggctctg aaccaaagga gcaggagac   | 480 |
| cttcaagaga atgatgagga aggtcagaa gatgaagcct cggagactga ctactcatca   | 540 |
| gctgatgaga acatcctcac caaagcagat acactcaaag taaaggatcg gaagaagaag  | 600 |
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| atctgtgcct | gtgcagccac | tgggacaggt  | aaaactgccg | cctttgcctt | gcctgttttg | 840  |
| gagcgtctga | tttataaacc | ccgccaggct  | ccagtcaccc | gcgtgctggt | gctagtgcc  | 900  |
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| atcaccacct | gcctggctgt | gggcggcttg  | gatgtgaagt | ctcaggaagc | agctcttcgg | 1020 |
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| ccttccttcc | acctgagcag | catcgagggtg | ctcatcctgg | acgaggctga | caggatgctg | 1140 |
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| accatgctct | tctcgccacc | catgacagac  | gaggtgaaag | atctggcttc | tgtctccttg | 1260 |
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| aaattccggg | acaagattga | gaaaatggag  | aaagatgtgt | atgcagttct | gcagctagag | 1860 |
| gcggaggaaa | aagagatgca | gcagtcagaa  | gccagatca  | atacagcaaa | gcggctcctg | 1920 |
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| actttggtgt | ggtggtatgg | tacgtagcta  | ttttcctaag | catgtctgtc | aatctccctt | 2580 |

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<211> 3246

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_018206.3| vacuolar protein sorting 35 (yeast) (VPS35), mRNA

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| agagcccctt tgatccacca ggagcaatta agaaaggctc ttcaggtaaat ccttcaatgg | 1620 |
| ctgctttgaa cttactcagg aaagccagcc cccataatat tgtattacca aacagtatcg  | 1680 |
| ctttgttagg aaggatctgg aataatcttg aagggaagtc agagttttct ccttgcctat  | 1740 |
| taacaaaaac ccaattttgt tcatattgaa gcatgaaata aatgagagca aggtagggcc  | 1800 |
| aaattaactc ttgtggacag tccctaaaag tccagttcta catttgtgaa aatttgtgtg  | 1860 |
| ccatgaatta agatggatga ctggaaaaag gtgttgagaa aagagttaaa gatgaggaa   | 1920 |
| agatattttt agtatatgaa gttatccagg acttgatatt cataattcag tgctgtggaa  | 1980 |
| atgaaaaaaaa tgattgaaga ggtggaacgg aaatgacctt agggggaaaa aaaaggacca | 2040 |
| aagaagtctg attaaaagtt gaaatcagta ttctgaatt caaattgctt gaatttccaa   | 2100 |
| aatagtcagt aaaggatcta atagaaccag aattatttgg gtgaattctg caggttttat  | 2160 |
| gggcttgta caacgtgaag ggctggaatg tatattacca aatgggaatt tccattgtag   | 2220 |
| gtttttgcta gtcccacccc catttttagcc taatttggtc taaacgcagt atggggagaa | 2280 |
| ttgttcccat tccatgtgtt ctgaattcag ctcatctccc agcatataga tatatctcc   | 2340 |
| tttaactccg accagaacct ttcttctgt ggcactcccc acccatagac cttcagatca   | 2400 |
| tctcccacac cctggatctc actctctct tagtaacaga gacactctg aggttggtact   | 2460 |
| tccttgcttt tctctacttc caaatcacia ttctttacaa ccaagctttg tgctcccgag  | 2520 |
| taagcagggg tgtactaggg gaatgtaaaa ctgcaaaactt aaaaacctgc atcttcttga | 2580 |
| agcatcagtt ttacttacca aatgggttag agtcataaga tgacctattt ttatataaaa  | 2640 |
| gttatattat agaataaaat gtccatcgc atagactgtt aagataaaaa aataggaatc   | 2700 |
| ttgcaaggta attcttattt gcaagtgggt tatgtgttca ctctcttcta cctttatggg  | 2760 |
| attttgggtg tcacttacga agcatacaac tagaaccata tccaagcaga ctctgggttg  | 2820 |
| ctgttaacc agggcctaga ctctagtgc ctctgaggca gaaccaaagg agcctgcact    | 2880 |
| ggggaaaaac ccttttctg cctgcctgtc tgctgtgac ctgtgtactg attacaggct    | 2940 |
| ttaggaccag ctgattgtta tgcttgacag atgggtttga aacagaaaaca atactgttt  | 3000 |
| actgtaggaa tcctatttat attatttttc agtcctgtga atgctgtgaa aagatttatt  | 3060 |
| cctttgaggc caggaagctc ccaggcatat atgcttctag gttaggattg tcttgactca  | 3120 |
| ctaaagatgc caggatattg gggctgaggg gagtttgagg tgttaaaaaa aaaaaaaaaa  | 3180 |
| aa   | 3182 |

<210> 82

<211> 4930

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_020182.3| transmembrane, prostate androgen induced RNA (TMEPAI), transcript variant 1, mRNA

<400> 82

|             |             |            |            |            |             |      |
|-------------|-------------|------------|------------|------------|-------------|------|
| aaacccgatac | tccttgagcat | tgaatgagga | ggaggaggcg | gcggcgccgg | cggcgccgga  | 60   |
| ggcgctcggc  | tggggaagac  | tagcggcaga | ggctcagccc | cggcgccagc | gcgcgccccg  | 120  |
| ctgccagccc  | attttccgga  | cgccaccgcg | gggcactgcc | gacgcccccg | gggctgccga  | 180  |
| ggggaggccg  | ggggggcgca  | gcggagcgcg | gtcccgcgca | ctgagccccg | cggcgccccg  | 240  |
| ggaacttgcc  | ggcgacccga  | gcccggcgag | ccggggcgcg | cctccccgcg | cgcgcgccct  | 300  |
| ctgcatcgcc  | ggccccagct  | cgggcgcccg | gccggagccc | cccccgcccg | ccccgagcc   | 360  |
| ccccgcgccc  | cgcgccgcgc  | cgccgcgccc | tccatgcacc | gcttgatggg | ggtcaacagc  | 420  |
| accgcccgcg  | ccgcccgcgc  | gcagcccaat | gtctcctgca | cgtgcaactg | caaacgctct  | 480  |
| ttgttcagga  | gcattggagat | cacggagctg | gagttgttct | agatcatcat | catcgtggtg  | 540  |
| gtgatgatgg  | tgatggtggt  | ggtgatcacg | tgctgtgtga | gccactacaa | gctgtctgca  | 600  |
| cggctcttca  | tcagccggca  | cagccagggg | cggaggagag | aagatgcctt | gtcctcagaa  | 660  |
| ggatgcctgt  | ggccctcgga  | gagcacagt  | tcaggcaacg | gaatccagga | gccgcagggt  | 720  |
| tacgccccgc  | ctcgccccac  | cgaccgcctg | gccgtgccc  | ccttcgccca | gcgggagcgc  | 780  |
| ttccaccgct  | tccagccacc  | ctatccgtac | ctgcagcacg | agatcgacct | gccaccacc   | 840  |
| atctcgtgtg  | cagacgggga  | ggagccccca | ccctaccagg | gccccctcac | cctccagctt  | 900  |
| cgggaccccc  | agcagcagct  | ggaactgaac | cgggagtcgg | tgcgcgccac | cccaaacaga  | 960  |
| accatcttcg  | acagtgacct  | gatggatagt | gccaggctgg | gcggccccct | ccccccagc   | 1020 |
| agtaactcgg  | gcatacgcgc  | cacgtgctac | ggcagcgccg | ggcgcatgga | ggggccgccc  | 1080 |
| cccacctaca  | gcgagggtcat | cggccactac | ccggggctct | ccttcagcca | ccagcagagc  | 1140 |
| agtggggccg  | cctccttgct  | ggaggggacc | cggctccacc | acacacacat | cgcgccccta  | 1200 |
| gagagcgcac  | ccatctggag  | caaagagaag | gataaacaga | aaggacaccc | tctctagggg  | 1260 |
| cccagggggg  | gccgggctgg  | ggctgcgtag | gtgaaaaggc | agaacactcc | gcgctcttta  | 1320 |
| gaagaggagt  | gagaggaagg  | cggggggcgc | agcaacgcac | cgtgtggccc | tcccctccca  | 1380 |
| cctccctgtg  | tataaatatt  | tacatgtgat | gtctggtctg | aatgcacaag | ctaagagagc  | 1440 |
| ttgcaaaaaa  | aaaaagaaaa  | aagaaaaaaa | aaaccacgt  | ttctttgttg | agctgtgtct  | 1500 |
| tgaaggcaaa  | agaaaaaaa   | ttctacagtc | agctcttctt | gtttctagtt | gagctgcgtg  | 1560 |
| cgatgaatgct | tattttcttt  | tgtttatgat | aatttcactt | aactttaaag | acatatattgc | 1620 |



|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| acaaaacctt  | tgtttaaaga  | tctgcaatat  | tatatatata  | aatatatata | agataagaga  | 1680 |
| aactgtatgt  | gcgagggcag  | gagtattttt  | gtattagaag  | aggcctatta | aaaaaaaaag  | 1740 |
| ttgttttctg  | aactagaaga  | ggaaaaaaat  | ggcaattttt  | gagtgccaa  | tcagaaagt   | 1800 |
| tgtattacct  | tgtaaagaaa  | aaaattacaa  | agcaggggtt  | tagagttatt | tatataaat   | 1860 |
| ttgagatttt  | gcactatttt  | ttaatataaa  | tatgtcagtg  | cttgcttgat | ggaaacttct  | 1920 |
| cttgtgtctg  | ttgagacttt  | aaggggagaaa | tgtcgggaatt | tcagagtcgc | ctgacggcag  | 1980 |
| aggggtgagcc | cccgtggagt  | ctgcagagag  | gccttggcca  | ggagcgcg   | gctttcccga  | 2040 |
| ggggccactg  | tcctctcaga  | gtggatgctt  | ctgcctagtg  | acaggttatc | accacgttat  | 2100 |
| atattcccta  | ccgaaggaga  | caccttttcc  | cccctgacc   | agaacagcct | ttaaatacaca | 2160 |
| agcaaaatag  | gaaagttaac  | cacggaggca  | ccgagttcca  | ggtagtgtt  | ttgcctttcc  | 2220 |
| caaaaatgaa  | aataaactgt  | taccgaagga  | attagttttt  | cctcttcttt | tttccaactg  | 2280 |
| tgaaggtccc  | cgtgggggtg  | agcatggtgc  | ccctcacaa   | ccgcagcggc | tgttgcccgg  | 2340 |
| gctaccaggg  | acatgccaga  | gggctcgatg  | acttgtctct  | gcagggcgct | ttggtggttg  | 2400 |
| ttcagctggc  | taaaggttca  | ccggtgaagg  | caggtgcggt  | aactgccgca | ctggacccta  | 2460 |
| ggaagcccca  | ggtattcgca  | atctgacctc  | ctcctgtctg  | tttcccttca | cggatcaatt  | 2520 |
| ctcacttaag  | aggccaataa  | acaacccaac  | atgaaaaggt  | gacaagcctg | ggtttctccc  | 2580 |
| aggataggtg  | aaagggttaa  | aatgagtaaa  | gcagttgagc  | aaacaccaac | ccgagcttcg  | 2640 |
| ggcgcagaat  | tcttcacctt  | ctcttcccct  | ttccatctcc  | tttcccccg  | gaaacaacgc  | 2700 |
| ttcccttctg  | gtgtgtctgt  | tgatctgtgt  | tttcatttac  | atctctctta | gactccgctc  | 2760 |
| ttgttctcca  | ggttttccacc | agatagattt  | ggggttggcg  | ggacctgctg | gtgacgtgca  | 2820 |
| ggtgaaggac  | aggaaagggc  | atgtgagcgt  | aaatagaggt  | gaccagagga | gagcatgagg  | 2880 |
| ggtgggggctt | tgggacccac  | cggggccagt  | ggctggagct  | tgacgtcttt | cctccccatg  | 2940 |
| ggggtgggag  | ggccccccag  | tggaaagaca  | gactcccagc  | tgctaccccc | ttccttccca  | 3000 |
| tgggagtggc  | tttccatttt  | gggcagaatg  | ctgactagta  | gactaacata | aaagatataa  | 3060 |
| aaggcaataa  | ctattgtttg  | tgagcaactt  | ttttataact  | tccaaaacaa | aaacctgagc  | 3120 |
| acagttttga  | agtcttagcc  | actcgagctc  | atgcatgtga  | aacgtgtgct | ttacgaaggt  | 3180 |
| ggcagctgac  | agacgtgggc  | tctgcatgcc  | gccagcctag  | tagaaagttc | tcgttcattg  | 3240 |
| gcaacagcag  | aacctgcctc  | tccgtgaagt  | cgtcagccta  | aaatttgttt | ctctcttgaa  | 3300 |
| gaggattctt  | tgaagaggtc  | ctgcagagaa  | atcagtacag  | gttatcccg  | aaggtacaag  | 3360 |
| gacgcacttg  | taaagatgat  | taaaacgtat  | ctttccttta  | tgtgacgcgt | ctctagtgcc  | 3420 |
| ttactgaaga  | agcagtgaca  | ctcccgtcgc  | tcggtgagga  | cgttcccgga | cagtgectca  | 3480 |
| ctcacctggg  | actggtatcc  | cctccagg    | tccaccaagg  | gctcctgctt | ttcagacacc  | 3540 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| ccatcatcct | cgcgcgtcct | caccctgtct | ctaccagggg | ggtgcctagc | ttggtgaggt  | 3600 |
| tactcctgct | cctccaacct | ttttttgcca | aggtttgtac | acgactccca | tctaggctga  | 3660 |
| aaacctagaa | gtggaccttg | tgtgtgtgca | tggtgtcagc | ccaaagccag | gctgagacag  | 3720 |
| tcctcatatc | ctcttgagcc | aaactgtttg | ggtctcgttg | cttcacggta | tggtctggat  | 3780 |
| ttgtgggaat | ggctttgctg | gagaaagggg | aggagagtgg | ttgctgcctt | cagccggctt  | 3840 |
| gaggacagag | cctgtccctc | tcatgacaac | tcagtgttga | agcccagtgt | cctcagcttc  | 3900 |
| atgtccagtg | gatggcagaa | gttcatgggg | tagtggcctc | tcaaaggctg | ggcgcatccc  | 3960 |
| aagacagcca | gcaggttgtc | tctggaaacg | accagagtta | agctctcggc | ttctctgctg  | 4020 |
| aggggtcacc | ctttctccta | gatggtagtt | gtcacgttat | ctttgaaaac | tcttggaactg | 4080 |
| ctcctgagga | ggccctcttt | tccagtagga | agttagatgg | gggttctcag | aagtggctga  | 4140 |
| ttggaagggg | acaagcttcg | tttcaggggt | ctgccgttcc | atcctggttc | agagaaggcc  | 4200 |
| gagcgtggct | ttctctagcc | ttgtcactgt | ctccctgcct | gtcaatcacc | acctttcctc  | 4260 |
| cagaggagga | aaattatctc | ccctgcaaag | cccggttcta | cacagatttc | acaaattgtg  | 4320 |
| ctaagaaccg | tccgtgttct | cagaaagccc | agtgtttttg | caaagaatga | aaagggaccc  | 4380 |
| catatgtagc | aaaaatcagg | gctgggggag | agccgggttc | attccctgtc | ctcattggtc  | 4440 |
| gtccctatga | attgtacgtt | tcagagaaat | tttttttcct | atgtgcaaca | cgaagcttcc  | 4500 |
| agaaccataa | aatatccctg | cgataaggaa | agaaaaatgc | gttggtgttg | tttttctgga  | 4560 |
| aactgcttga | aatcttgctg | tactatagag | ctcagaagga | cacagccctg | cctccccctg  | 4620 |
| ctgcctgatt | ccatggctgt | tgtgctgatt | ccaatgcttt | cacgttggtt | cctggcgtgg  | 4680 |
| gaactgctct | cctttgcagc | cccatttccc | aagctctggt | caagttaaac | ttagtgaagc  | 4740 |
| tttccgtggc | atgcggggcg | cgcaccacag | tccccgtgcg | gtaagactct | gtatttggat  | 4800 |
| gccaatccac | aggcctgaag | aaactgcttg | ttgtgtatca | gtaatcatta | gtggcaatga  | 4860 |
| tgacattctg | aaaagctgca | atacttatac | aataaaattt | acaattcttt | ggaaaaaaaa  | 4920 |
| aaaaaaaaaa |            |            |            |            |             | 4930 |

<210> 83

<211> 702

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_014183.2| dynein, cytoplasmic, light polypeptide 2A (DNCL2A), transcript variant 1, mRNA

<400> 83

|            |            |            |            |            |             |     |
|------------|------------|------------|------------|------------|-------------|-----|
| cgcagaaagg | cacaggactc | gctaagtgtt | cgctacgcgg | ggctaccgga | tcggtcggaa  | 60  |
| atggcagagg | tggaggagac | actgaagcga | ctgcagagcc | agaagggagt | gcaggggaatc | 120 |
| atcgctgtga | acacagaagg | cattcccatc | aagagcacca | tggacaaccc | caccaccacc  | 180 |
| cagtatgcc  | gcctcatgca | cagcttcac  | ctgaaggcac | ggagcaccgt | gcgtgacatc  | 240 |
| gacccccaga | acgatctcac | cttccttcga | attcgctcca | agaaaaatga | aattatgggt  | 300 |
| gcaccagata | aagactattt | cctgattgtg | attcagaatc | caaccgaata | agccactctc  | 360 |
| ttggctccct | gtgtcatctc | ttaatttaat | gcccccaag  | aatgttaatg | tcaatcatgt  | 420 |
| cagtggacta | gcacatggca | gtcgcttga  | acccactcac | accaatccag | tgaccgtgtg  | 480 |
| tgggctggcg | gctcttctcc | cccaccaacg | gaacccctgt | gtgcaccaac | cttccccaga  | 540 |
| gtcccgagc  | gccctctctc | catttcacag | ttttggagca | agagcttgca | ggaagccgc   | 600 |
| accagcttc  | cttctgacct | tcagttcact | ttgtcgccct | tggagaaagc | tgtttttctt  | 660 |
| taactaaaaa | taaccaaaat | gcttaaaaaa | aaaaaaaaaa | aa         |             | 702 |

<210> 84

<211> 2100

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_015907.2| leucine aminopeptidase 3 (LAP3), mRNA

|             |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 84    |            |            |            |            |            |     |
| ctgcccattcc | gtccccccc  | ctagacgcac | gtccgctcgc | ccggcgcccg | agccagtcgg | 60  |
| cgcgcacgcc  | gtctgcgccc | cgaaagcccc | gccccaaagg | gcgcccgccc | accgctctcc | 120 |
| acgtgtctcg  | tggaggggcg | tgcgaggggc | cgagccgaca | agatgttctt | gctgcctctt | 180 |
| ccggtgcgcg  | ggcgagtagt | cgcccgacgt | ctggccgtga | gacgtttcgg | gagccggagt | 240 |
| ctctccaccg  | cagacatgac | gaagggcctt | gttttaggaa | tctattccaa | agaaaaagaa | 300 |
| gatgatgtgc  | cacagttcac | aagtgcagga | gagaattttg | ataaattgtt | agctggaag  | 360 |
| ctgagagaga  | ctttgaacat | atctggacca | cctctgaagg | cagggagac  | tcgaaccttt | 420 |
| tatggtctcg  | atcaggactt | cccacgctg  | gtgctagtgt | gcctcgccaa | aaaggcagct | 480 |
| ggaatcgacg  | aacaggaaaa | ctggcatgaa | ggcaagaaa  | acatcagagc | tgctgttgca | 540 |
| gcggggtgca  | ggcagattca | agacctggag | ctctcgtctg | tggaggtgga | tcctgttgga | 600 |
| gacgctcagg  | ctgctgcgga | gggagcgggt | cttggctctt | atgaatacga | tgacctaaag | 660 |
| caaaaaaaga  | agatggctgt | gtcggcaaa  | ctctatggaa | gtggggatca | ggaggcctgg | 720 |
| cagaaaggag  | tcctgtttgc | ttctgggcag | aacttggcac | gccaattgat | ggagacgcca | 780 |

|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| gccaatgaga | tgacgccaac  | cagatttgct  | gaaattattg  | agaagaatct | caaaagtgtc | 840  |
| agtagtaaaa | ccgaggtcca  | tatcagaccc  | aagtcttgga  | ttgaggaaca | ggcaatggga | 900  |
| tcattctcta | gtgtggccaa  | aggatctgac  | gagccccag   | tcttcttgga | aattcactac | 960  |
| aaaggcagcc | ccaatgc aaa | cgaaccaccc  | ctggtgtttg  | ttgggaaagg | aattaccttt | 1020 |
| gacagtgggt | gtatctccat  | caaggcttct  | gcaaatatgg  | acctcatgag | ggctgacatg | 1080 |
| ggaggagctg | caactatatg  | ctcagccatc  | gtgtctgctg  | caaagcttaa | tttgcccatt | 1140 |
| aatattatag | gtctggcccc  | tctttgtgaa  | aatatgccca  | gcggcaaggc | caacaagccg | 1200 |
| ggggagtgtg | ttagagccaa  | aaacgggaag  | accatccagg  | ttgataacac | tgatgctgag | 1260 |
| gggaggctca | tactggctga  | tgcgctctgt  | tacgcacaca  | cgtttaaccc | gaaggtcatc | 1320 |
| ctcaatgccg | ccaccttaac  | aggtgccatg  | gatgtagctt  | tgggatcagg | tgccactggg | 1380 |
| gtctttacca | attcatctcg  | gctctggaac  | aaactcttcg  | aggccagcat | tgaacagggg | 1440 |
| gaccgtgtct | ggaggatgcc  | tctcttcgaa  | cattatacaa  | gacaggttgt | agattgccag | 1500 |
| cttgctgatg | ttaacaacat  | tgaaaaatac  | agatctgcag  | gagcatgtac | agctgcagca | 1560 |
| ttcctgaaag | aattcgtaac  | tcatcctaag  | tgggcacatt  | tagacatagc | aggcgtgatg | 1620 |
| accaacaaag | atgaagtctc  | ctatctacgg  | aaaggcatga  | ctgggaggcc | cacaaggact | 1680 |
| ctcattgagt | tcttactctg  | tttcagtcaa  | gacaatgctt  | agttcagata | ctcaaaaatg | 1740 |
| tcttcactct | gtcttaaaat  | ggacagttga  | acttaaaagg  | tttttgaata | aatggatgaa | 1800 |
| aatcttttaa | cggagacaaa  | ggatgggtatt | taaaaatgta  | gaacacaatg | aaatttgtat | 1860 |
| gccttgattt | ttttttcatt  | tcacacaaag  | at ttataaag | gtaaagttaa | tatcttactt | 1920 |
| gataaggatt | tttaagatac  | tctataaatg  | attaaaaattt | ttagaacttc | ctaatacctt | 1980 |
| ttcagagtat | atgtttttca  | ttgagaagca  | aaattgtaac  | tcagatttgt | gatgctagga | 2040 |
| acatgagcaa | actgaaaaat  | actatgcact  | tgtcagaaac  | aataaatgca | acttgttgtg | 2100 |

<210> 85

<211> 1510

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_018478.1| chromosome 20 open reading frame 35 (C20orf35), mRNA

<400> 85

|            |             |            |            |            |            |     |
|------------|-------------|------------|------------|------------|------------|-----|
| cgagtgtggc | caaggggtgcc | ggaggcaggg | ttcgggtgcg | tagtcgttgc | gtgggcgctg | 60  |
| cccaaaaggc | gcagagcatc  | aagtgtgcgt | gggcagaacc | ggcgcggggc | cccgccgcgg | 120 |

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| gtctgcgcgg | ggcggggg    | cagcaagtgc | atccgagcga | gcggagacta | gcgcaccggc | 180  |
| gtcgggtggc | aggggtgg    | agaggagtcc | ggctgggcgg | agggaggaag | gatgggtg   | 240  |
| ggtaactttt | tgaccgcctt  | ggaagtacca | gtagccgcgc | tcgcaggggc | tgctccgcac | 300  |
| cgcggggcga | gctgcgagcg  | agtgcgccc  | ccaccgcccc | tccccactt  | ccgcctcg   | 360  |
| acgaggcctc | ttcctcgttc  | ccggctccca | gggccctgt  | ccaggccgga | gccaggggcc | 420  |
| ccactgttgg | gatgctggct  | gcagtggggc | gccccagcc  | cagggtccct | ctgtcttctc | 480  |
| tttcgacttt | gcagctgtac  | ttgttttgct | cctctaccg  | caggagtga  | catggacc   | 540  |
| aatcctcggg | ccgccctgga  | gcgccagcag | ctccgccttc | gggagcgga  | aaaattcttc | 600  |
| gaggacattt | tacagccaga  | gacagagttt | gtctttcttc | tgtcccatct | gcatctcgag | 660  |
| tcgcagagac | ccccatag    | tagtatctca | tccatggaag | tgaatgtgga | cacactggag | 720  |
| caagtagaac | ttattgacct  | tggggaccg  | gatgcagcag | atgtgttctt | gccttgcgaa | 780  |
| gatcctccac | caacccccca  | gtcgtctggg | gtggacaacc | atttgaggga | gctgagcctg | 840  |
| ccggtggcta | catcagacag  | gaccacatct | aggacctcct | cctcctcttc | ctccgactcc | 900  |
| tccaccaacc | tgcatagccc  | aaatccaagt | gatgatggag | cagatacgcc | cttggcacag | 960  |
| tcggatgaag | aggaggaaag  | gggtgatgga | ggggcagagc | ctggagcctg | cagctagcag | 1020 |
| tggggccctg | cctacagact  | gaccacgctg | gctattcttc | acatgagacc | acaggcccag | 1080 |
| ccagagcctg | tcgggagaag  | accagactct | ttacttgcag | taggcaccag | aggtgggaag | 1140 |
| gatggtggga | ttgtgtacct  | ttctaagaat | taacctcttc | ctgctttact | gctaattttt | 1200 |
| tcctgtctga | accctccac   | cagtttttgg | cttactcctg | agatatgatt | tgcaaatgag | 1260 |
| gagagagaag | atgaggttgg  | acaagatgcc | actgcttttc | ttagcactct | tcctcccttc | 1320 |
| aaacatcc   | gtagtcttct  | aatacagtct | ctcagacaag | tgtctctaga | tggatgtgaa | 1380 |
| ctccttaact | catcaagtaa  | ggtggtactc | aagccatgct | gcctccttac | atcctttttg | 1440 |
| gaacagagca | cgggtataaat | aataaactaa | taataatatg | ccaacaaaaa | aaaaaaaaaa | 1500 |
| aaaaaaaaaa |             |            |            |            |            | 1510 |

<210> 86

<211> 3105

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_030674.2| solute carrier family 38, member 1 (SLC38A1), mRNA

<400> 86

|            |          |            |            |            |            |    |
|------------|----------|------------|------------|------------|------------|----|
| gcacgagggg | ctggggcg | cacgcactcc | gccagaaggt | cgccaggagc | ctccgccttc | 60 |
|------------|----------|------------|------------|------------|------------|----|

|            |            |             |             |            |            |      |
|------------|------------|-------------|-------------|------------|------------|------|
| caccttcctc | ggaaatccgc | caggccacgc  | aagctccctg  | cccaaccctt | actgacgggg | 120  |
| gccacathtt | cccgccctcc | gcagccagac  | cttgacacaa  | aggacatcaa | actgccgagg | 180  |
| gtaaaaaccc | cggaaggcgc | gacacctcca  | catcgctttt  | tgccaccttt | ccctttattt | 240  |
| ccggagatat | ttattgagtg | tctactgtgt  | gccaggcact  | atatctatgt | gcatagaaaa | 300  |
| accctggaag | gccatacaac | aatatatata  | gagtgatcgt  | ctctgcttgc | tgagctaaca | 360  |
| ggggtgtcaa | gcttccattt | tggtatctac  | ttctaaatac  | actcagaaca | ggagaaattt | 420  |
| ggactaattt | tcaactaca  | gacactttct  | aatcatgatg  | catttcaaaa | gtggactcga | 480  |
| attaactgag | ttgcaaaaa  | tgacagtgcc  | cgaggatgat  | aacattagca | atgactccaa | 540  |
| tgatttcacc | gaagtgaata | atggctcagat | aaatagcaag  | tttatttctg | atcgtgaaag | 600  |
| tagaagaagt | ctcacaacaa | gccatttgga  | aaaaaagaag  | tgatgatagt | atattccagg | 660  |
| tacaaccttc | ttaggcatgt | ctgtttttta  | cctaagcaac  | gcattatggt | gcagtgggat | 720  |
| tttgggactc | gcctttgccc | tgcaaacac   | tggaatccta  | ctttttctgg | tacttttgac | 780  |
| ttcagtgaca | ttgtgtgcta | tatatccaat  | aaacctccta  | ttgatctgtt | caaaagaaac | 840  |
| aggctgcatg | gtgtatgaaa | agctggggga  | acaagtcctt  | ggcaccacag | ggaagtctgt | 900  |
| aatctttgga | gccacctctc | tacagaacac  | tggaagcaatg | ctgagctacc | tcttcacgt  | 960  |
| aaaaaatgaa | ctacctctgt | ccataaagtt  | tctaattgga  | aaggaagaga | cattttcagc | 1020 |
| ctggtagctg | gatggccgcg | ttctgggtgt  | gatagttacc  | tttggcataa | ttctccctct | 1080 |
| gtgtctcttg | aagaacttag | ggtatcttgg  | ctatactagt  | ggattttcct | tgagctgtat | 1140 |
| ggtttttttc | ctaattgtgg | ttatttaca   | gaaatttcaa  | attccctgca | ttgttccaga | 1200 |
| gctaatttca | acaataagtg | ctaattcaac  | aaatgctgac  | acgtgtacgc | caaaatatgt | 1260 |
| taccttcaat | tcaaagaccg | tgtatgcttt  | accaccatt   | gcatttgcac | ttgtttgcca | 1320 |
| cccgtagctc | ctgccaattt | acagtgaagt  | taaagaccga  | tcacagaaaa | aaatgcagat | 1380 |
| ggtttcaaac | atctcctttt | tcgccatggt  | tgttatgtac  | ttcttgactg | ccatttttgg | 1440 |
| ctacttgaca | ttctatgaca | acgtgcagtc  | cgacctcctt  | cacaaatatc | agagtaaaga | 1500 |
| tgacattctc | atcctgacag | tgcggtggc   | tgtcattggt  | gctgtgatcc | tcacagtgcc | 1560 |
| ggtgttattt | ttcacggatc | gttcactctt  | atttgaactg  | gctaagaaaa | caaagttaa  | 1620 |
| tttatgtcgt | cataccgtgt | ttacctgcat  | actcttggtt  | gttatcaact | tgttggtgat | 1680 |
| cttcataccc | tccatgaagg | atatttttgg  | agtcgtagga  | gttacatctg | ctaactgct  | 1740 |
| tattttcatt | cttccttcac | ctctttattt  | aaaaatcaca  | accaggatgg | agataaagga | 1800 |
| actcaaagaa | tttgggctgc | ctttttcttg  | ggcctggggg  | tggtgttctc | cttggtcagc | 1860 |
| attcccttgg | tcactatgta | ctgggcctgc  | tcactgagta  | atggtgaagg | ccactgaaac | 1920 |
| ccgccgagaa | aaagaaacat | ccctgttgtc  | tgctcagtc   | agtccccaca | catcagcaat | 1980 |

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| ctctcaccac | ttcttttgca | agtttacaga  | agcaaacaga  | aatgtacagg  | atacttaaaa  | 2040 |
| tggaataact | ttttggttgc | aaaacagaga  | catggttcta  | taatgcttca  | tgtccctcca  | 2100 |
| agatttgaga | tcaatttagg | gattgtgaaa  | tttttttttc  | aaatttcata  | caatcatatt  | 2160 |
| tcccagtact | tttcacaatc | atttttttacc | catctaactc  | tatgttttgt  | ggcttccggg  | 2220 |
| tctcttagaa | ctttgaaaac | atgatataca  | ataatgttta  | ttattataac  | atccagattc  | 2280 |
| tgaaataatt | ttcctactga | tgttcagctc  | acactatctg  | taccttttta  | gaagagaaaa  | 2340 |
| gaatcttgaa | ttgtatatat | ttattttgct  | ttacagaaaa  | aaatggtttc  | gtaaaataatt | 2400 |
| tgccattttt | gggtaacata | gcacatggag  | ataatcatct  | gaaagttata  | gggcactgcc  | 2460 |
| actgctgaat | cagagcatgc | ccaatatttg  | aggtaggctct | gatttcctgg  | cagctgaact  | 2520 |
| cgggtagtcc | agtggcctag | ctggtaccac  | atctattccc  | atccagagac  | attctctggc  | 2580 |
| aagtgttctc | agctgaaaaa | tggttgggga  | tgattcttac  | cttggttaatt | aaatgaagct  | 2640 |
| acacatttgg | gtaatctagc | aaatgaagta  | ttttttccct  | cttggaact   | tgtgtcagag  | 2700 |
| ttactctggt | ctgagtcaac | tttcgctggg  | gaaaacctat  | ggaacctact  | gcaaaaagat  | 2760 |
| tgtccaaaat | gcctaagaaa | atactctctc  | gatgcattta  | gccttcaacc  | ctacctgtct  | 2820 |
| tgctgaaggg | agaaaaatgt | tttagtacat  | tataggccca  | gcagctttta  | ttcatgtcca  | 2880 |
| ccagctagtt | gcacagagaa | tcatgtgtac  | ctaactaagg  | atgatctagg  | ataagtaact  | 2940 |
| cctgttttat | attgagtatt | ttagggaagt  | ctttaaaaga  | cttgttttat  | atctataaat  | 3000 |
| ctaggttatt | acaataacaa | gaattttgta  | ccttaataaa  | gcctcatttc  | tattttctct  | 3060 |
| tcattaattc | tccatctagt | cttgtgaaaa  | aaaaaaaaaa  | aaaaa       |             | 3105 |

<210> 87

<211> 2711

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_016028.4| suppressor of variegation 4-20 homolog 1  
(Drosophila) (SUV420H1), transcript variant 2, mRNA

|            |            |  |     |
|------------|------------|--|-----|
| <400> 87   |            |  |     |
| ggtgctgagg | cccgcgccgc | catcttggat tttactctcc atttttctct ggaattat    | 60  |
| ttggtgatta | atttttctgg | ggggactggg acgcggggcc cggcggcgcg gccccgcac   | 120 |
| gcagcggccg | ggcagcgggg | cctgggacgc gcccgagga ggagcggggc ggcgcaggcg   | 180 |
| gagagaacat | tgaaggtatt | ctctaagcta ttgaagaga gtgactaaat gcacctgggt   | 240 |
| caggctgtct | gtgggtatga | agtggttggg agaattcaag aacatggtgg tgaattggcag | 300 |

|             |            |            |             |            |             |      |
|-------------|------------|------------|-------------|------------|-------------|------|
| gagaaatgga  | ggcaagttgt | ctaagacca  | tcagcagaat  | caatcaaat  | tacagcacac  | 360  |
| ggggaaggac  | accctgaagg | ctggcaaaaa | tgagctcgag  | aggaggtcga | acagatgtaa  | 420  |
| tggttaactcg | ggatttgaag | gacagagtcg | ctatgtacca  | tcctctggaa | tgctccgcaa  | 480  |
| ggaactctgt  | gaaatgatg  | acctagcaac | cagtttggtt  | cttgatccct | atttaggttt  | 540  |
| tcaaacacac  | aaaatgaata | ctagcgctt  | tccttcgagg  | agctcaaggc | atttttcaaa  | 600  |
| atctgcagct  | ttttctcaca | acaaccctgt | gagatttagg  | cctattaaag | gaaggcagga  | 660  |
| agaactaaag  | gaagtaattg | aacgttttaa | gaaagatgaa  | cacttgagaa | aagccttcaa  | 720  |
| atgtttgact  | tcaggcgaat | gggcacggca | ctattttctc  | aacaagaata | aaatgcagga  | 780  |
| gaaattattc  | aaagaacatg | tatttattta | tttgcgaatg  | tttgcaactg | acagtggatt  | 840  |
| tgaaatatgt  | ccatgtaata | gatactcatc | agaacaaaa   | ggagccaaaa | tagttgcaac  | 900  |
| aaaagagtgg  | aaacgaaatg | acaaaataga | attactgggtg | ggttgatttg | ccgaactttc  | 960  |
| agaaattgag  | gagaacatgc | tacttagaca | tgagaaaaac  | gacttcagtg | tcattgtactc | 1020 |
| cacaaggaaa  | aactgtgctc | aactctggct | gggtcctgct  | gcgtttataa | accatgattg  | 1080 |
| cagacctaat  | tgtaagtttg | tgtaactgg  | tcgagataca  | gcagtgtga  | aggctctaag  | 1140 |
| agacattgaa  | cctggagaag | aaatttcttg | ttattatgga  | gatgggttct | ttggagaaaa  | 1200 |
| taatgagttc  | tgcgagtgtt | acacttgcga | aagacggggc  | actggtgctt | ttaaatccag  | 1260 |
| agtgggactg  | cctgcgcctg | ctcctgttat | caatagcaaa  | tatggactca | gagaacaga   | 1320 |
| taaacgttta  | aataggctta | aaaagttagg | tgacagcagc  | aaaaattcag | acagtcaatc  | 1380 |
| tgtcagctct  | aacactgatg | cagataccac | tcaggaaaaa  | aacaatgcaa | gtaagtaagg  | 1440 |
| gagatttgat  | aagcatatct | tttaaaagta | ttttcacaca  | atttgcttta | taaagtgtgc  | 1500 |
| ttcagtagtt  | ttaaactttt | aaatactcag | agagactggg  | acttgtgagc | tttggttgca  | 1560 |
| cttcaaggct  | ctagacgtga | tttgagtaga | ggcacagctt  | gtatcccatc | tctaacttca  | 1620 |
| gtaccgtcct  | ctagactatt | tttcttgaat | accttggtaa  | ctggatatga | gttcttcatc  | 1680 |
| atatgttcca  | aggtcacatc | atgtttttaa | cattttcaag  | gtgttagaga | ctgtgatgat  | 1740 |
| gtcgctaagt  | cctgcaagaa | gacaaaagga | ctgagtagaa  | ttaaattaga | ctctatacat  | 1800 |
| tccagtcgct  | agccagtttg | ttagaaaaga | tgatggactt  | ggggaattca | tagcttcttg  | 1860 |
| ccttaaggct  | tccacctttt | cattgtctgc | tgaccttttt  | caaaacgaac | tgactcagtt  | 1920 |
| cagcagacca  | ccagtaccag | actcagaatt | gtgatagagg  | agcattttga | acagtgcgct  | 1980 |
| attgtgacat  | gctgtattgg | ctactccaga | aagtaggagt  | aaagatggaa | aggagaaaga  | 2040 |
| agcaacctct  | gagattccag | tggtgtgtgg | gggcaagatc  | tgatggaaac | tgaaaaagag  | 2100 |
| aacgaagact  | aaacaaagag | aaaggaaaga | gaagaaaccc  | ttaatgggca | aaggaaagca  | 2160 |
| catcctgttt  | gcggagcttt | gaaatattgg | aaccatttct  | aattgctcct | gtttttctgg  | 2220 |



|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| gtaacaccag | ttttctgtag  | ttgccactaa | agcagtagac | tcttgagtct | cacttgtctc | 2280 |
| tgagagagac | agaagttaga  | aagttttgac | ttggcgattc | cgaaagtatg | cctttgttgg | 2340 |
| cacttaaatg | tccagtgaga  | cttcttgga  | ccttagagcc | ctctgagata | ctgattattt | 2400 |
| taggttcttc | tcctacttt   | cagatgtttt | cagcccaaca | ctgggtgctc | tcttccacta | 2460 |
| cagagaatcc | tgaagaaaag  | ggaagggtgt | tcccatgatg | gtgaatgtca | ctgccatgaa | 2520 |
| ttcctgaatc | tacctgtctg  | tgggagtcag | agtccaagca | taaccctgtg | agcataaaag | 2580 |
| cagcgctgta | gcctatttcc  | agtctttttc | gttaatgtcc | agagtgaaca | acaagagtta | 2640 |
| gtcaatcatt | aactgtttgac | tgttgattct | cataataaat | gcagcataac | gacaaaaaaa | 2700 |
| aaaaaaaaaa | a           |            |            |            |            | 2711 |

<210> 88

<211> 2977

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_022105.2| death associated transcription factor 1 (DATF1), transcript variant 1, mRNA

|            |             |  |     |
|------------|-------------|--|-----|
| <400>      | 88          |  |     |
| gggagcggga | gggcaggcgc  | accggaggcc gccctcagc acctctcgcg acagcaagag   | 60  |
| agcgcgagag | cgcgagccga  | tgaccaatga agcgcccccg cgagggggcg gggcggacgg  | 120 |
| cctcccggaa | gcgcgggaacc | tcagcttcg tacttgcgca gaactcccct cgcggcgacc   | 180 |
| acgcactacg | ggttgcgccc  | agagtcaaaa ggcgtcggcc ctctggcaag atggctgctg  | 240 |
| cggaggcggt | ggagcgcgga  | aatctggaac cgggatggcg acgtctacac tgagtcggag  | 300 |
| gcgaaggagc | ttactccacg  | ggaacagcct ctagataatc tgagtgttg aaaaacgaa    | 360 |
| gcctgttact | cgtgaacagt  | ggctgacaac agtgtttgtg tgagcctggc tgtctgcttg  | 420 |
| gaccagagg  | tttcgtctcg  | cagggttttt ggttgatttt aggatttcag gaaaagtgt   | 480 |
| ccaagctttc | agtggttgag  | cagggtatgga cgacaaaggc gaccgcagca atgaggaggc | 540 |
| acctaaggcc | atcaaaccca  | ccagcaaaga gttcaggaaa acatgggggtt ttcgaaggac | 600 |
| cactatcgcc | aagcgagagg  | gcgcagggga cgcggaggct gaccacttgg agccgccacc  | 660 |
| cccacagcag | cagctgggcc  | tgtcccctcg gcgcagtggt aggcagccca agcgactgta  | 720 |
| gcgcgtggag | cagttcctga  | ccattgcgcg gcgcgcgggc aggaggagca tgcctgtctc  | 780 |
| cctggaggat | tctggtgagc  | ccacgtcctg ccccgccaca gacgcggaga cagcctccga  | 840 |
| gggcagcggt | gaaagcgctt  | ctgagaccag aagcggcccc cagttctgctt ccacagctgt | 900 |
| gaaggaacga | ccagcctctt  | ctgaaaagggt gaaaggaggg gatgaccacg atgacacctc | 960 |

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| cgatagtgac  | agcgatggcc | tgaccttgaa | agagcttcag | aatcgccctc  | gcaggaagcg | 1020 |
| ggaacaggag  | cccactgaga | ggcccttgaa | agggatccag | agtcgcctgc  | ggaagaagcg | 1080 |
| ccgggaggag  | ggccccgccg | agactgtggg | ctccgaggcc | agtgacactg  | tggaggcgct | 1140 |
| cctgcccagt  | aagcaggagc | ccgagaacga | tcaggggggt | gtgtcccagg  | ctgggaagaa | 1200 |
| tgacagagag  | agtaagtgtg | agggaaaggc | ggctcaggac | atcaaatgat  | aggagcctgg | 1260 |
| agacttgggc  | cgaccgaagc | ctgaatgtga | gggttacgac | cccaacgccc  | tgtattgcat | 1320 |
| ttgccgccag  | cctcacaaac | acaggtttat | gatttgcgtg | gaccgctgtg  | aagaatgggt | 1380 |
| tcattggcat  | tgtgtgggca | tttctgaggc | tcgaggggag | cttttggaag  | ggaatgggga | 1440 |
| agactatatc  | tgcccaaaat | gcaccattct | gcaagtgcag | gatgagactc  | attcagaaac | 1500 |
| ggcagatcag  | caggaagcta | aatggagacc | tggagatgct | gatggcaccg  | attgtacaag | 1560 |
| tataggaaac  | atagagcaga | agtctagcga | agaccaaggg | ataaagggta  | gaattgagaa | 1620 |
| agctgcaaat  | ccaagtggca | agaagaaact | caagatcttc | cagcctgtga  | tagaggcgcc | 1680 |
| tgggtgcctca | aaatgtattg | gccccgggtg | ctgtcacgtg | gcgcagcccg  | actcggtgta | 1740 |
| ctgcagtaat  | gactgtatcc | tcaaacacgc | cgcagcgaca | atgaagtctc  | taagctcagg | 1800 |
| taaagaacag  | aagccaaagc | ctaaagaaaa | gatgaagatg | aagccagaga  | agcccagttc | 1860 |
| tccgaaatgc  | ggtgtctcag | caggtattaa | aatctcttct | gtgcacaaga  | gaccagctcc | 1920 |
| agaaaaaaaa  | gagaccacag | tgaagaaggc | agtggtgtgc | cctgcgcgga  | gtgaagcact | 1980 |
| cgggaaggaa  | gcagcttgtg | agagcagcac | gccgtctgtg | gcgagcgatc  | acaattacaa | 2040 |
| tgcatgaaag  | ccagaaaaag | ctgctgtctc | ctcgccgtca | ctgttgtata  | aatgtatgta | 2100 |
| tcacctaggg  | gttgccctcc | tggacccctc | ccgtctcttc | tggatagcca  | tcccctgggc | 2160 |
| ctgtccaggga | ctgggagttg | cagctttgtg | ttaagctgat | cacagacacc  | ggctgcacca | 2220 |
| tcagcgggaa  | gcagagccca | tgtccaggat | gcctcctgct | gccctgtgtc  | catccctagt | 2280 |
| ctgtcaggac  | ttcctgtcac | tgttttccaa | agctgtaaac | ctcactgggtg | aacgttcacc | 2340 |
| ttaatgattg  | attctttaat | ctctgttttc | actctcaggc | tctggtaagt  | attcgatttc | 2400 |
| tcttcatccc  | agtctgattg | catagccaca | ctgcccggca | cgccacatcc  | accctgtctt | 2460 |
| gcacatgagt  | tgttctgaca | acagcgctgt | atacgcttca | gtttttccac  | attgtccacg | 2520 |
| gccagcacat  | gaaagcatca | cttctttttt | atgttgtggg | aatcttttga  | agttagtgtt | 2580 |
| gcattctgatt | ttcagggtga | cattttattt | tgactgggca | gataggggat  | tttttttttt | 2640 |
| ccatgtccga  | ttcacacgct | acacaccac  | atgaacacat | tcgaacttcg  | aagccacac  | 2700 |
| actcctgctt  | cataggcccc | acggtaagtg | agttcacacc | tagaacactg  | tcctgaccgc | 2760 |
| aggacgcgtg  | ccttggaact | ggtattctac | atgtgactgg | ctttcttgcc  | ctcgtctctt | 2820 |
| gaatgtttag  | actcttaaga | tcatatcctg | ccccaaattt | caaattaatg  | aatgaagat  | 2880 |

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<210> 89

<211> 1047

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_018487.2| hepatocellular carcinoma-associated antigen 112 (HCA112), mRNA

<400> 89

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cagcacacc acatcgatgt gcacatccac caggagtctg ccttgcccaa gctcctgctc 180  
acctgctgct ctgcgctgcy gccccgggcc acccaggcca ggggcagcag ccgctgctg 240  
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<211> 2785

<212> DNA

<213> Homo sapiens

<220>  
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| aataagataa caagaattgg agcatgcaaa gaatgggact tggataatga ctttaagcttt | 2040 |
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| cattcagctc ctctgcctct gcctgcctcc tgggtcccac ttaaaggct gtcgagctcc   | 2580 |
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<210> 91

<211> 3802

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_017763.1| hypothetical protein FLJ20315 (FLJ20315), mRNA

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| aagcataaat gttcttttcc tcattttgtc tggatctgag aacctgcatt tggatttagc  | 120 |
| tagtggaagc agtatgtatg gttgaagtc attgctgcag ctggtagcat gagtggtggc   | 180 |
| caccagctgc agctggctgc cctctggccc tggctgctga tggctaccct gcaggcagggc | 240 |
| tttgacgca caggactggt actggcagca gcggtggagt ctgaagatc agcagaacag    | 300 |
| aaagctgtta tcagagtgat ccccttgaaa atggacccca caggaaaact gaatctcact  | 360 |

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| ttggaagggtg | tgtttgctgg | tgttgctgaa | ataactccag | cagaaggaaa  | attaatgcag  | 420  |
| tcccaccac   | tgtacctgtg | caatgccagt | gatgacgaca | atctggagcc  | tggattcatc  | 480  |
| agcatcgta   | agctggagag | tcctcgacgg | gcccccgcc  | cctgcctgtc  | actggctagc  | 540  |
| aaggctcggg  | tggcgggtga | gcgaggagcc | agtgtctgtc | tctttgacat  | cactgaggat  | 600  |
| cgagctgtg   | ctgagcagct | gcagcagccg | ctggggctga | cctggccagt  | gggtgtgatc  | 660  |
| tggggtaatg  | acgctgagaa | gctgatggag | tttgtgtaca | agaacaaaa   | ggcccatgtg  | 720  |
| aggattgagc  | tgaaggagcc | cccgccctgg | ccagattatg | atgtgtggat  | cctaatagaca | 780  |
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| cgccacagca  | ggccggatcc | gcttcagcag | agaacagcct | gggccatcag  | ccagctggcc  | 900  |
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| tccagccatg  | tccactacca | cgccaccgg  | caccaccact | acaaaaagcg  | gttccagtg   | 1860 |
| catggcagga  | agcctggccc | agaaaccgga | gtcccccagt | ccaggcctcc  | tattctcgg   | 1920 |
| acacagcccc  | agccagagcc | accttctcct | gatcagcaag | tcaccggatc  | caactcagca  | 1980 |
| gccccctcgg  | ggcggctctc | taaccacag  | tgccccagg  | ccctccctga  | gccagccct   | 2040 |
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<211> 1236

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_017918.3| hypothetical protein FLJ20647 (FLJ20647), mRNA

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<210> 93

<211> 2096

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_024792.1| membrane protein expressed in epithelial-like lung adenocarcinoma (CT120), mRNA

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| aagactgtgc  | taccatgtgt | tctcaagtgg | tagtttataa  | agtggatttt | taaagtgcct  | 2040 |

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<210> 94

<211> 4372

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_014314.2| DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (DDX58), mRNA

<400> 94

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tgactgcctc ggttgggtgtt ggggatgcca aaacacaga tgaagccttg gattatatct 1440

|            |            |            |             |             |             |      |
|------------|------------|------------|-------------|-------------|-------------|------|
| gcaagctgtg | tgtcttctct | gatgcgtcag | tgatagcaac  | agtcaaacac  | aatctggagg  | 1500 |
| aactggagca | agttgtttat | aagccccaga | agtttttcag  | gaaagtggaa  | tcacggatta  | 1560 |
| gcgacaatt  | taaatacatc | atagctcagc | tgatgagggg  | cacagagagt  | ctggcaaaga  | 1620 |
| gaatctgcaa | agacctcgaa | aacttatctc | aaattcaaaa  | taggggaattt | ggaacacaga  | 1680 |
| aatatgaaca | atggattgtt | acagttcaga | aagcatgcac  | ggtgttcacg  | atgccagaca  | 1740 |
| aagatgaaga | gagcaggatt | tgtaaagccc | tgtttttata  | cacttcacat  | ttgcggaaat  | 1800 |
| ataatgatgc | cctcattatc | agtgcagcat | cacgaatgaa  | agatgctctg  | gattacttga  | 1860 |
| aagacttctt | cagcaatgtc | cgagcagcag | gattcgatga  | gattgagcaa  | gatcttactc  | 1920 |
| agagatttga | agaaaagctg | caggaactag | aaagtgttcc  | cagggatccc  | agcaatgaga  | 1980 |
| atcctaaact | tgaagacctc | tgcttcacat | tacaagaaga  | gtaccactta  | aaccagaga   | 2040 |
| caataacaat | tctctttgtg | aaaaccagag | cacttgtgga  | cgcttataaa  | aattggattg  | 2100 |
| aaggaaatcc | taaactcagt | ttcttaaaac | ctggcatatt  | gactggacgt  | ggcaaaacaa  | 2160 |
| atcagaacac | aggaatgacc | ctcccggcac | agaagtgtat  | attggatgca  | ttcaaagcca  | 2220 |
| gtggagatca | caatattctg | attgccacct | cagttgctga  | tgaaggcatt  | gacattgcac  | 2280 |
| agtgcaatct | tgtcatcctt | tatgagtatg | tgggcaatgt  | catcaaaatg  | atccaaacca  | 2340 |
| gaggcagagg | aagagcaaga | ggtagcaagt | gcttccttct  | gactagtaat  | gctgggtgtaa | 2400 |
| ttgaaaaaga | acaaataaac | atgtacaaag | aaaaaatgat  | gaatgactct  | attttacgcc  | 2460 |
| ttcagacatg | ggacgaagca | gtatttaggg | aaaagattct  | gcataatacag | actcatgaaa  | 2520 |
| aattcatcag | agatagtcaa | gaaaaaccaa | aacctgtacc  | tgataaggaa  | aataaaaaac  | 2580 |
| tgctctgcag | aaagtgcmaa | gccttggcat | gttacacagc  | tgacgtaaga  | gtgatagagg  | 2640 |
| aatgccatta | caactgtgct | ggagatgctt | ttaagggaatg | ctttgtgagt  | agaccacatc  | 2700 |
| ccaagccaaa | gcagttttca | agttttgaaa | aaagagcaaa  | gatatttctgt | gcccgcagaga | 2760 |
| actgcagcca | tgactggggg | atccatgtga | agtacaagac  | atttgagatt  | ccagttataa  | 2820 |
| aaattgaaag | ttttgtgggt | gaggatattg | caactggagt  | tcagacactg  | tactcgaagt  | 2880 |
| ggaaggactt | tcatttttag | aagataccat | ttgatccagc  | agaaatgtcc  | aatgatatac  | 2940 |
| aggtcctcaa | tcttcagcta | cagggaatga | gtaactttga  | gtggagaaga  | aacaacata   | 3000 |
| gtgggtataa | tcattgatcg | cttgtacccc | tgtgaaaata  | tatttttttaa | aaatatcttt  | 3060 |
| agcagtttgt | actatattat | atatgcaaag | cacaaatgag  | tgaatcacag  | cactgagtat  | 3120 |
| ttttagggcc | aacagagctc | atagtacttg | ggaaaaatta  | aaaagcctca  | tttctagcct  | 3180 |
| tctttttaga | gtcaactgcc | aacaacacac | cagtaatcac  | tctgtacaca  | ctgggataga  | 3240 |
| tgaatgaatg | gaatgttggg | aatttttatc | tccttttgtc  | tccttaacct  | actgtaaaact | 3300 |
| ggcttttgcc | cttaacaatc | tactgaaatt | gttcttttga  | aggttaccag  | tgactctggt  | 3360 |

|            |            |            |            |             |            |      |
|------------|------------|------------|------------|-------------|------------|------|
| tgccaaatcc | actgggcact | tcttaacctt | ctatttgacc | tctgcgcatt  | tgccctgtt  | 3420 |
| gagcactctt | cttgaagctc | tcccctgggt | tctctctctt | ctagtcttat  | tctagtcttt | 3480 |
| ttttattgag | tcctctcttt | tgctgatccc | ttccaagggg | tcaatatata  | tacatgtata | 3540 |
| tactgtacat | atgtatatgt | aactaatata | catacataca | ggtagtgata  | tgtaatgggt | 3600 |
| atatgtactc | atgttcctgg | tgtagcaacg | tgtggtatgg | ctacacagag  | aacatgagaa | 3660 |
| cataaagcca | tttttatgct | tactactaaa | agctgtccac | tgtagagttg  | ctgtatgtag | 3720 |
| caatgtgtat | ccactctaca | gtggtcagct | tttagtagag | agcataaaaa  | tgataaaata | 3780 |
| cttcttgaaa | acttagttta | ctatacatct | tgccctatta | atatgtttctc | ttaacgtgtg | 3840 |
| ccattgttct | ctttgaccat | tttcctataa | tgatgttgat | gttcaacacc  | tggactgaat | 3900 |
| gtctgttctc | agatccctgt | gatgttacag | atgaggcagt | ctgactgtcc  | tttctacttg | 3960 |
| aaagattaga | atatgtatcc | aaatggcatt | cacgtgtcac | ttagcaaggt  | ttgctgatgc | 4020 |
| ttcaaagagc | ttagtttgcg | gtttcctgga | cgtggaaaca | agtatctgag  | ttccctggag | 4080 |
| atcaacggga | tgaggtgtta | cagctgcctc | cctcttcacg | caatctgggtg | agcagtggtg | 4140 |
| caggcgggga | gccagagaaa | cttgccagtt | atataacttc | tctttggcct  | ttcttcacat | 4200 |
| gtaaaacaag | gataatactg | aactgtaagg | gttagtggag | agtttttaat  | taaaagaatg | 4260 |
| tgtgaaaagt | acatgacaca | gtagttgctt | gataatagtt | actagtagta  | gtattcttac | 4320 |
| taagacccaa | tacaaatgga | ttatttaaac | caaaaaaaaa | aaaaaaaaaa  | aa         | 4372 |

<210> 95

<211> 2163

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_015515.3| keratin 23 (histone deacetylase inducible) (KRT23), transcript variant 1, mRNA

|            |  |
|------------|--|
| <400> 95   |  |
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| tccatcgctc | ctctgcaggt cacagacaca cagagcccag ccgtggcagg ctacgccggg 120 |
| gtccggggct | gctaacaacg gctacattcc tccccaggg ccaagggaaa tctctgagcg 180  |
| aggccagggt | tgtttggttt tgaggtgtgc tgggatgaaa ggcaccctgg aagtggaaag 240 |
| taaatgaaca | atggaaaaac ttcacggcaa gattagaag atacctgagc ccaatacccg 300  |
| cctgatgtcg | tgggccacac ctccgggtta ccaggggaag ggaggaagca aactgtcata 360 |
| ttgatgtggc | tctaacaac aacagtgtgc gaagcccag ggcactttg ggattgacca 420    |

|             |             |            |            |             |             |      |
|-------------|-------------|------------|------------|-------------|-------------|------|
| agaggaaaca  | caagttgcac  | aatgatacaa | tcttgttgg  | acaattgtca  | gagaagggaa  | 480  |
| ctccacagc   | aaagggcata  | aaaccatcca | gggcagtctg | ggcggtctca  | gttctgcggt  | 540  |
| gccagggagt  | ggagcagagc  | tcagccccgt | cccaaacaca | gatgggacca  | tgaactccgg  | 600  |
| acacagcttc  | agccagaccc  | cctcggcctc | cttccatggc | gccggagggtg | gctggggccg  | 660  |
| gcccaggagc  | ttccccaggg  | ctcccaccgt | ccatggcggt | gcggggggag  | cccgcattct  | 720  |
| cctgtccttc  | accacgcgga  | gtgtcccacc | ccctggaggg | tcttgggggt  | ctggaagaag  | 780  |
| cagcccccta  | ctaggcgaa   | atgggaaggc | caccatgcag | aatctcaacg  | accgcctggc  | 840  |
| ctcctacctg  | gagaagggtc  | gcgccttggg | ggaggccaac | atgaagctgg  | aaagccgcat  | 900  |
| cctgaaatgg  | caccagcaga  | gagatcctgg | cagtaagaaa | gattattccc  | agtatgagga  | 960  |
| aaacatcaca  | cacctgcagg  | agcagatagt | ggatggtaag | atgaccaatg  | ctcagattat  | 1020 |
| tcttctcatt  | gacaatgcca  | ggatggcagt | ggatgacttc | aacctcaagt  | atgaaaatga  | 1080 |
| acactccttt  | aagaaagact  | tggaattga  | agtcgagggc | ctccgaagga  | ccttagacaa  | 1140 |
| cctgaccatt  | gtcacaaacg  | acctagaaca | ggaggtggaa | ggaatgagga  | aagagctcat  | 1200 |
| tctcatgaag  | aagcaccatg  | agcaggaaat | ggagaagcat | catgtgccaa  | gtgacttcaa  | 1260 |
| tgtaaatgtg  | aaggtggata  | caggtcccag | ggaagatctg | attaaggtcc  | tggaggatat  | 1320 |
| gagacaagaa  | tatgagctta  | taataaagaa | gaagcatcga | gacttggaca  | cttgggtataa | 1380 |
| agaacagtct  | gcagccatgt  | cccaggaggc | agccagtcca | gccactgtgc  | agagcagaca  | 1440 |
| agggtgacatc | cacgaactga  | agcgcacatt | ccaggccctg | gagattgacc  | tgcagacaca  | 1500 |
| gtacagcagc  | aaatctgctt  | tggaaaacat | gttatccgag | accagctctc  | ggtactcctg  | 1560 |
| caagctccag  | gacatgcaag  | agatcatctc | ccactatgag | gaggaactga  | cgcagctacg  | 1620 |
| ccatgaactg  | gagcggcaga  | acaatgaata | ccaagtgtct | ctgggcatca  | aaacccacct  | 1680 |
| ggagaaggaa  | atcaccacgt  | accgacggct | cctggaggga | gagagtgaag  | ggacacggga  | 1740 |
| agaatcaaag  | tcgagcatga  | aagtgtctgc | aactccaaag | atcaaggcca  | taacccagga  | 1800 |
| gaccatcaac  | ggaagattag  | ttctttgtca | agtgaatgaa | atccaaaagc  | acgcatgaga  | 1860 |
| ccaatgaaag  | tttcgcctg   | ttgtaaaatc | tattttcccc | caaggaaagt  | ccttgcacag  | 1920 |
| acaccagtga  | gtgagtctta  | aaagataccc | ttggaattat | cagactcaga  | aacttttatt  | 1980 |
| ttttttttct  | gtaacagtct  | caccagactt | ctcataatgc | tcttaataata | ttgacttttt  | 2040 |
| ctaatacaaag | tgcaggttta  | tgagggtaaa | gctctacttt | cctactgcag  | cttctcagatt | 2100 |
| ctcatcatatt | tgcattctatt | ttgtagccaa | taaaactccg | cactagcaaa  | aaaaaaaaaa  | 2160 |
| aaa         |             |            |            |             |             | 2163 |

<210> 96

<211> 2881

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_007210.2| UDP-N-acetyl-alpha-D-galactosamine:polypeptide  
N-acetyl-galactosaminyltransferase 6 (GalNAc-T6) (GALNT6), mRNA

<400> 96

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| atgaggctcc | tccgcagacg | ccacatgccc  | ctgcgcctgg | ccatggtggg | ctgcgccttt  | 60   |
| gtgctcttcc | tcttctcctc | gcatagggat  | gtgagcagca | gagaggaggc | cacagagaag  | 120  |
| ccgtggctga | agtcctcggt | gagccggaag  | gatcacgtcc | tggacctcat | gctggaggcc  | 180  |
| atgaacaacc | ttagagattc | aatgcccgaag | ctccaaatca | gggtccaga  | agcccagcag  | 240  |
| actctgttct | ccataaacca | gtcctgcctc  | cctgggttct | ataccccagc | tgaactgaag  | 300  |
| cccttctggg | aacggccacc | acaggacccc  | aatgcccctg | gggcagatgg | aaaagcattt  | 360  |
| cagaagagca | agtggacccc | cctggagacc  | caggaaaagg | aagaaggcta | taagaagcac  | 420  |
| tgtttcaatg | cctttgccag | cgaccggatc  | tccctgcaga | ggtccctggg | gccagacacc  | 480  |
| cgaccacctg | agtgtgtgga | ccagaagttc  | cggcgtgcc  | ccccactggc | caccaccagc  | 540  |
| gtgatcattg | tgttccacaa | cgaagcctgg  | tccacactgc | tgcgaaacgt | gtacagcgtc  | 600  |
| ctacacacca | cccctgccat | cttgctcaag  | gagatcatac | tggtggatga | tgccagcaca  | 660  |
| gaggagcacc | taaaggagaa | gctggagcag  | tacgtgaagc | agctgcaggt | ggtgaggggtg | 720  |
| gtgcggcagg | aggagcggaa | ggggttgatc  | accgcccggc | tgctgggggc | cagcggtggca | 780  |
| caggcgaggg | tgctcacggt | cctggatgcc  | actgtgagt  | gcttccacgg | ctggctggag  | 840  |
| cccctcctgg | ctcgaatcgc | tgaggacaag  | acagtgggtg | tgagcccaga | catcgtcacc  | 900  |
| atcgacctta | atacttttga | gttcgccaag  | cccgtccaga | ggggcagagt | ccatagccga  | 960  |
| ggcaactttg | actggagcct | gaccttcggc  | tgggaaacac | ttcctccaca | tgagaagcag  | 1020 |
| aggcgcaagg | atgaaacata | ccccatcaaa  | tccccgagct | ttgctgtgtg | cctcttctcc  | 1080 |
| atccccaagt | cctactttga | gcacatcggt  | acctatgata | atcagatgga | gatctgggga  | 1140 |
| ggggagaacg | tggaaatgtc | cttccgggtg  | tggcagtggt | ggggccagct | ggagatcatc  | 1200 |
| ccctgtctct | tcgtaggcca | tgtgttccgg  | accaagagcc | cccacacctt | cccaaggggc  | 1260 |
| actagtgtca | ttgctcgcaa | tcaagtgcgc  | ctggcagagg | tctggatgga | cagctacaag  | 1320 |
| aagattttct | ataggagaaa | tctgcaggca  | gcaaagatgg | cccaagagaa | atccttctggt | 1380 |
| gacatttcgg | aacgactgca | gctgagggaa  | caactgcact | gtcacaaact | ttcctgtgtac | 1440 |
| ctgcacaatg | tctaccaga  | gatgtttgtt  | cctgacctga | cgccacactt | ctatggtgcc  | 1500 |
| atcaagaacc | tcggcaccaa | ccaatgcctg  | gatgtgggtg | agaacaaccg | cgggggggaag | 1560 |
| cccctcatca | tgtactcctg | ccacggcctt  | ggcggcaacc | agtactttga | gtacacaact  | 1620 |

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| cagagggacc | ttcgccacaa | catcgcaaag  | cagctgtgtc | tacatgtcag  | caaggggtgct | 1680 |
| ctgggccttg | ggagctgtca | cttactctggc | aagaatagcc | aggtcccaa   | ggacgaggaa  | 1740 |
| tgggaatttg | cccaggatca | gtcatcagg   | aactcaggat | ctggtacctg  | cctgacatcc  | 1800 |
| caggacaaaa | agccagccat | ggccccctgc  | aatcccagtg | acccccatca  | gttgtggctc  | 1860 |
| tttgtctagg | accagatca  | tccccagaga  | gagccccac  | aagctctca   | ggaacagga   | 1920 |
| ttgtgatgt  | ctgggaacct | gatcaccagc  | ttctctggag | gccgtaaaga  | tggatttcta  | 1980 |
| aaccacttg  | gtggcaaggc | aggaccttcc  | taatccttg  | aacaacattg  | ggccattttt  | 2040 |
| ctttcttca  | caccgatgga | agagaccatt  | aggacatata | tttagcctag  | cgttttcctg  | 2100 |
| ttctagaaat | agaggctccc | aaagtaggga  | aggcagctgg | gggagggttc  | agggcagcaa  | 2160 |
| tgctgagttc | aagaaaagta | cttcaggctg  | ggcacagtgg | ctcatgcctg  | aatcctagc   | 2220 |
| actttgggaa | gacaatgttg | gagaatggct  | tgagcccagg | agttcaagac  | cggcctgagc  | 2280 |
| aacatagtga | ggatcccatc | tctacgcca   | ccctccccc  | ggcaaaaaaa  | aaagctgggt  | 2340 |
| atggtggcct | atgcctgtag | tcgcagctac  | tcagaaggct | gagggtggag  | gattgcttgt  | 2400 |
| tccccggagg | ttgaagctac | agtgaacctt  | gatttgttca | ctgcactcca  | gcctgggcaa  | 2460 |
| caggtaagac | tctgtctcaa | aaaaaaaaa   | aaaaagaaga | agaaaagtac  | ttctacagcc  | 2520 |
| atgtctatt  | ccttgatcat | ccaaagcacc  | tgagagctcc | agtgaatga   | tatatcttgg  | 2580 |
| ctgggcacag | tggctcacac | ctgtaatcct  | agcactttgg | gaggccaagg  | cagggtgatac | 2640 |
| acctgaggtc | agaagtttga | aaccagcctg  | gactacatgg | tgaaactcca  | tcttactaa   | 2700 |
| aagtacaaaa | attagctggg | catgatggca  | cgcacctgca | gtcccagcta  | cttgggaggc  | 2760 |
| tgaggcagga | gaatcactcg | aaccagagg   | gcagaggttg | cagtgaagcca | agacagcacc  | 2820 |
| attgcacccc | agcctgagca | acaagagcga  | aactccatct | caggaaaaaa  | aaaaaaaaaa  | 2880 |
| a          |            |             |            |             |             | 2881 |

<210> 97

<211> 1930

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_020183.3| aryl hydrocarbon receptor nuclear translocator-like 2 (ARNTL2), mRNA

<400> 97

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| gaccaagtgg | ctcctgcgat | ggcggcggaa | gaggaggctg | cggcgggagg | taaagtgttg | 60  |
| agagaggaga | accagtgcac | tgctcctgtg | gtttccagcc | gcgtgagctc | agggacaaga | 120 |

|  |      |
|--|------|
| ccaacagcta tggggctctt cagctcacac atgacagagt ttccacgaaa acgcaaagga  | 180  |
| agtgattcag acccatccca gtcaggaatc atgacagaaa aagtggtgga aaagctttct  | 240  |
| cagaatcccc ttacctatct tctttcaaca aggatagaaa tatcagcctc cagtggcagc  | 300  |
| agagtggaag atgggtgaaca ccaagttaaa atgaaggcct tcagagaagc tcatagccaa | 360  |
| actgaaaagc ggaggagaga taaaatgaat aacctgattg aagaactgtc tgcaatgatc  | 420  |
| cctcagtgc accccatggc gcgtaaacctg gacaaactta cagttttaag aatggctggt  | 480  |
| caacacttga gatctttaaa aggcttgaca aattcttatg tgggaagtaa ttatagacca  | 540  |
| tcatttcttc aggataatga gctcagacat ttaatcctta agactgcaga aggcttctta  | 600  |
| tttgtggtg gatgtgaaag aggaaaaatt ctcttcggtt ctaagtcagt ctccaaaata   | 660  |
| cttaattatg atcaggctag tttagctgga caaagcttat ttgacttctt acatccaaaa  | 720  |
| gatgttgcca aagtaaaagg acaactttct tcttttgata ttccaccaag agaaaagcta  | 780  |
| atagatgcca aaactggttt gcaagttcac agtaatctcc acgctggaag gacacgtgtg  | 840  |
| tattctggct caagacgatc tttttctgt cggataaaga gttgtaaaat ctctgtcaaa   | 900  |
| gaagagcatg gatgcttacc caactcaaag aagaaagagc acagaaaatt ctatactatc  | 960  |
| cattgcactg gttacttgag aagctggcct ccaaatattg ttggaatgga agaagaaagg  | 1020 |
| aacagtaaga aagacaacag taattttacc tgccttggtg ccattggaag attacagcca  | 1080 |
| tatatgttc cacagaacag tggagagatt aatgtgaaac caactgaatt tataaccgg    | 1140 |
| tttgcagtga atggaaaatt tgtctatgta gatcaaagg caacagcgat tttaggatat   | 1200 |
| ctgcctcagg aacttttggg aacttctgt tatgaatatt ttcacaaaga tgaccacaat   | 1260 |
| aatttgactg acaagcacaa agcagttcta cagagtaagg agaaaatact tacagattcc  | 1320 |
| tacaaaatca gagcaaaaga tggctctttt gtaactttaa aaagccaatg gtttagtttc  | 1380 |
| acaaatcctt ggacaaaaga actggaatat attgtatctg tcaacacttt agttttggga  | 1440 |
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| tctagacagt cctgtatgag tgtacctgga atgtctactg gaacagtact tgggtctggt  | 1560 |
| agtattggaa cagatatgtc aaatgaaatt ctggatttac agaggttaca gtcttcttca  | 1620 |
| tacctgatg attcgagtcc aacaggttta atgaaagata ctcatctgt aaactgcagg    | 1680 |
| agtatgtcaa ataaggagt gtttccacca agtccttctg aaatggggga gctagaggct   | 1740 |
| accaggcaaa accagagtac tgttgctgtc cacagccatg agccactcct cagtgatggt  | 1800 |
| gcacagttgg atttcgatgc cctatgtgac aatgatgaca cagccatggc tgcatttatg  | 1860 |
| aattacttag aagcagaggg gggcctggga gacctgggg acttcagtga catccagtgg   | 1920 |
| accctctagc   | 1930 |



<211> 2128

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_014576.2| apobec-1 complementation factor (ACF), transcript variant 1, mRNA

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tggattttct ctacaaaaat tattgagcaa ccctaattaa cctgattttt tgctgataat 180  
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|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
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| ctgctctagc | cagccagaat | cctgcaatcc | accctttcac  | acctccaaag | ctgagtgctt | 1680 |
| ttgtggatga | agcaaagacg | tatgcagccg | aatacacctt  | gcagaccctg | ggcatcccca | 1740 |
| ctgatggagg | cgatggcacc | atggctactg | ctgctgtctg  | tgctactgct | ttcccaggat | 1800 |
| atgctgtccc | taatgcaact | gcacccgtgt | ctgcagccca  | gctcaagcaa | gcggtaaccc | 1860 |
| ttggacaaga | cttagcagca | tatacaacct | atgagggtcta | cccaactttt | gcagtgactg | 1920 |
| cccgagggga | tggatatggc | accttctgaa | gatgcttttt  | taaatttaag | aataagacac | 1980 |
| acaaaactct | attaaaaaaa | aaaaagaagt | aaacctctaa  | ctcgggtccc | aatgatcata | 2040 |
| aataatatgt | ttcctaagaa | aatgcctttc | cagagactgt  | atagcttata | ccaattatag | 2100 |
| aatcatgaag | taaaaaaaaa | aaaaaaaaa  |             |            |            | 2128 |

<210> 99

<211> 5730

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_019008.4| hypothetical protein FLJ20232 (FLJ20232), mRNA

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| aggcgagtcc | tgctggagtgg | 180 |
| gtcccccatg | gccccgtgga  | 240 |
| ccaggggcga | cagcttcgct  | 300 |
| attccgaaaa | aatcagaagc  | 360 |
| cctggctctt | ctcaacggca  | 420 |
| acaaagggtc | cttctgtaga  | 480 |
| agaagcctca | gatgagcaat  | 540 |
| ggcattggca | cgccatttga  | 600 |
| ggagcggcca | tgctgggcat  | 660 |
| agtgccctta | ccagccccac  | 720 |
| aactggatgg | gtccccacg   | 780 |
| ttgcagacct | ttcccacaga  | 840 |

|            |            |             |            |            |             |      |
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| cccaagccag | tggccaggaa | gggccaggta  | gacttgaaga | agtcacgact | ccgcatgtcc  | 900  |
| ctgcaggaga | aacttcttac | ttactaccgg  | aaccgggcag | ccatccctgc | tggagagcag  | 960  |
| gctcgggcc  | agcaagctgc | tgtggacata  | tgtgccgagc | tccggagctt | cctgcgggcc  | 1020 |
| aagtgcctg  | acatgccgct | tcgggacatg  | tacttgagtg | gcagcctcta | cgatgacctg  | 1080 |
| cagggtgtga | cagctgacca | catccaactc  | attgtgcccc | ttgtgctgga | gcagaacctg  | 1140 |
| tggtcatgta | ttcctgggtg | agacaccatc  | atgaatgtcc | ctggcttctt | cctggtgcgt  | 1200 |
| cgtgagaatc | cagagtactt | tcctcgtggg  | agcagttact | gggaccgctg | tgtagtaggg  | 1260 |
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| aattggccag | ccatagggct | cctcttggtg  | tatgtgatcc | gcccggcccc | acccccagaa  | 1380 |
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| cttatcagct | acttagaggc | tggagtcctg  | cccagtgccc | taaaccccaa | ggtgaactta  | 1800 |
| tttgagagc  | tcaccctcta | agaaatagac  | gaattaggat | acactctgta | ttgctcattg  | 1860 |
| tctgagccag | agggtgtgct | gcagacgtag  | ggcagggtga | ggccaaagcg | ggtgttggtg  | 1920 |
| gtcaggccct | ggattctccg | ttagatacac  | ttggctacct | agttggtgcc | tcacagggtt  | 1980 |
| cctgtgcctc | ggtgtcttgc | tgatcatcac  | cctggtcact | tcatgctgat | tagaatgaca  | 2040 |
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| gcgagtgtct | agacagtatt | tagggtttct  | gggagtgagg | ctggtagaag | agttggcctt  | 2460 |
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| gagctgggta | agggcctagt | gaagggtttg  | tgtgcccagt | gtctgctcgt | catctgtggc  | 2700 |
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| ataggaatgt | gagaggggtg  | tttgctgagc | gctccgggca | cggccagagg | gcaagtgagc  | 3060 |
| atgcacggac | ctcttcccc   | tgtcctgttt | ctcaccacgc | acctggggag | atcggtgcta  | 3120 |
| ccaaggaaga | gagcacacag  | ataagacaga | ggggaggagg | tgggcatttc | ctacattcct  | 3180 |
| ccttgtttgc | cgtgctgag   | attgcagtat | ttattgcaat | gtaaaatgat | cctgaagggtg | 3240 |
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| atttggtttc | cctgccatga  | gtattaaaaa | aatttaagtt | ttcccaagct | tgcactctctg | 3960 |
| accaaaattc | acataaaaaa  | ttggaaggag | gctgggtg   | gtggctcatg | cttgtaatcc  | 4020 |
| cagcactggg | aagctaaggc  | gggtggatca | cttgaggcca | ggagttcgag | accagcctgg  | 4080 |
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| cggaggttac | agtgaagctg  | gatcgtgcca | ctgcactcca | gcctgggtga | cagagtgaga  | 4260 |
| ccctatttca | aaaaaataaa  | aattggaaga | agagcttaaa | aaagataaga | ttttaaagag  | 4320 |
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| cttcttaaa  | agcatctctt  | ttaactgttg | gacaaaacca | taactttgtc | attttacaag  | 4440 |
| gaagaacctc | ttaagaagtc  | ctcagaacca | gaagcaatgt | gaactctcag | cgtgggtcct  | 4500 |
| ggtgggtttg | ctgaccatga  | ctgggcaagc | cgttcttttt | gctgccatct | tcctcatcat  | 4560 |
| aaagtgtgga | acataggcaa  | ttgctttgag | attcttggat | agaagaggac | aacattctgc  | 4620 |
| acctgcccc  | ttttttaaat  | ctttggggaa | agatgagtaa | ctttccccc  | tactctgcct  | 4680 |

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|--|------|
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| aatgcactca ttatcttaaa cctaataaat tccagagttt attttggttc tcctctgttg  | 4860 |
| cccttcctaa aaaatgagct gaagatgaca gtatttttct ttacatgctt ggttatgact  | 4920 |
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| accaggagaga ggcctccagg tgggagggtt ctgtaaatat agactactgc gagtgtccag | 5160 |
| agctctctgc catgatactt ccttgggact gacttggctg agaacgtgtt ctgtcagagg  | 5220 |
| atttggttaga actctgccct tttgtctgaa actcaaggcc aaggagaatg ataggagact | 5280 |
| taggacagag ctgacccttg caccaggctg ggaggctgca gcccttttag atgccactta  | 5340 |
| ctgtaagtgg ccagaatacc agagagggtg gttccatggt caaatgcaca gtagggtgtt  | 5400 |
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| aacttgcctt ctagtactt gcctgccgc agtggtggtg gatgtgttag ctggtgatt     | 5520 |
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| ttagccctga ggcacagaga cctgctgtcc tttttctct tgaggaggga aataaaactg   | 5640 |
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<211> 2545

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_030882.2| apolipoprotein L, 2 (APOL2), transcript variant alpha, mRNA

<400> 100

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| cacagatgca cagctggagc tgggatccac acagctcaga acagttggat ctgtctcagt  | 180 |
| ctctgtcaga ggaagatccc ttggacaaga ggacctgccc ttggtgtgag agtgagggaa  | 240 |
| gaggaagctg gaacgagggg taaggaaaac cttccagtct ggacagtgcac tggagagctc | 300 |
| caaggaaagc ccttcggtta cccagccgct ggcaccatga accagagagag cagtatcttt | 360 |
| attgaggatt accttaagta ttccaggac caagtgagca gagagaatct gctacaactg   | 420 |

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| aaccgccacg  | ataaagacca  | gcagcacagg  | cagtgggtttt | tgaaagagtt  | tcctcggttg  | 600  |
| aaaaggggagc | ttgaggatca  | cataaggaag  | ctccgtgccc  | ttgcagagga  | ggttgagcag  | 660  |
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| atgccgggca  | caggccaggga | caaaatgcag  | actttttttt  | tttttttttt  | ttttttttga  | 1440 |
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| tgtagctgag  | cacagcaagg  | gaggggttaa  | tgcatagggc  | aagtgcacca  | aggagaaggc  | 1860 |
| aggaacactg  | gagcctgcga  | taagggaagg  | gagaggactg  | gagagtgtgg  | ggaatgggaa  | 1920 |
| gaagtgtgtt  | actttggact  | aaagaatata  | ttgggcgaag  | aatagagggg  | gagcttgacg  | 1980 |
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| gtccttccaa  | gaataaagtc  | tttccctggg  | gatggtctct  | cgctctgtct  | ttccagcatc  | 2160 |
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| gcttgaaccc  | tgagaggcag  | gtggtaggcc  | atggccacaa  | tccccagctg  | aggagcaggt  | 2340 |



|            |            |            |            |            |            |      |
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| tgtagctttt | ctgcttact  | gtggcagcct | cctccctgga | tccttagatc | ccagaggagg | 1380 |
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<210> 102

<211> 2368

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_017903.2| hypothetical protein FLJ20618 (FLJ20618), mRNA

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| gctcaccaag | tggtacagcc ctaagcaagt gaacacaaac acatttaagt gtattttgtc   | 120  |
| tgattagatg | ttagccagtt atgctatttc attcaaatgt ctgaaaaaat caattgacta   | 180  |
| ttcccttttc | ctaaaaggca gagacagata atctcacttc cagagaaaatg acttgagagaa | 240  |
| aaaaaagtgt | tggtcttttt gctcttttgt aattaaatcc ggatgtacct caaaagactt   | 300  |
| aagactgtgg | tgataagatg ctttcctcag cagaaaggag ggaaaaaaa acaactggaa    | 360  |
| ctcaaagctt | gaaattctgt ggcaaaacat gagatgtcca ggattggagg ttgaaaagat   | 420  |
| ttctactacg | tgttctgcaa tagttggagc agataacttt cagtgtagcc acagccatgg   | 480  |
| actccagatt | tccagatttt caagacctgg acctggaacc cgaaagagct tgtcacgatg   | 540  |
| cggcaggaac | actggaggta gatttttttt tatttttgaa ttttgggact gttgaccttg   | 600  |
| ctgtgagaaa | agagacaacg actgagcaag cactaccacc agcactgtta ctgggaatta   | 660  |
| gaagacctga | gtttctgtcc agaccctcag tgcaaaactga ggatgctcca tccaagtga   | 720  |
| attatgtcct | gtgcctcctg attgctgagt gttcacctgg accttctgac taccttcctt   | 780  |
| gtgctattcc | atcagcctac agacctggta cctggatttt tgcccagatg gattcctacc   | 840  |
| accttactac | tgacgaagac acccattcca gtggaccact gtgaccagg aggcattcag    | 900  |
| ccatcatgat | gtggccttta cctccactcc tgtcttgttc taccagatt cagcacagcc    | 960  |
| ctttatagtg | aagtcagagt cctcaagcca aatagctaaa gctgttttat cacaacaaag   | 1020 |
| gcctagtttg | ttccatgagt gtgcatttca tttcttcagt taaagccttc agagacacac   | 1080 |
| aataaatttg | gaccagggga ttttttagtt attaatgctc tctgaagaaa ggcaacatct   | 1140 |
| ttttgagagc | agcattggac cacacccac aatctcaaat gattgaaatt catgaacatc    | 1200 |
| taggatcccg | tgaaggtcac tggacctgtg tttttctact tcaaatcctg tagtagccta   | 1260 |



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| ctgaatgaga aaacatatctc tgacccattg ggatcaaadc aaaggcacag tgaactcctc | 1320 |
| atagcatctt ctttggaatt actcaggaac cagaactttt tacacaaatg taagaaattc  | 1380 |
| taccaaggag tccccttacc taacagcatc tcacaaggct gcaccagatt ccagaaaagg  | 1440 |
| cttctcttga tacatcaagc attttgtgac cgacttattc ttagatcatt ggttttccaa  | 1500 |
| aggctttgtg gccatgaagc cttttgagtg aaaactgtgc agaagcccg agtaaaagtg   | 1560 |
| aagctgctct ggatgaagta gtgaagcaag agtagggggc tgaatcctgc tacaactatc  | 1620 |
| ttcctttacc accgtgggtga cacctaaggg gacttcctta caacaccttg aactcttccg | 1680 |
| aacacagttt gaaaaccact gcccagaca gcaatatgtt tgacctgaat ggcattccaa   | 1740 |
| tcttttctgt acctccactc agcacagtgc atgttcagta gatgtgaac attcttagaa   | 1800 |
| atactgtgtg tgaacttaga aaagtgaag aagacaggca tgtctttgac ccagggaatg   | 1860 |
| atcatttgct gaagatgggt tcaagtgaac cttagttaac agccctccac tccagatgga  | 1920 |
| tatccagtga ttcttagaat gggatatagc cagagacaa ttctatgcac cctacactga   | 1980 |
| cagactccct taagcaaac cagatgctct actggtactt gaagtacatg actttgaagt   | 2040 |
| cttgaccctc catgaatacc tgaattatca gcaagcgggt ttggaagctg gtcctcatt   | 2100 |
| gaggccatat tagagcaact tgtacatttg acctctgtt atcagccatg gtactctact   | 2160 |
| tcgtgtgcaa gagataacta tgaagccaa attcaaatc tggcaacatt tcctaaaggg    | 2220 |
| gtcacaatc tatcattcgt cttcttttcc aaactacaca tcaactgatg actcaaccag   | 2280 |
| tagcagttat attgccctt ggtttttatt cagttaact actgtttcca agataaatga    | 2340 |
| gctaataagc tttaaaaaa aaaaaaa                                       | 2368 |

<210> 103

<211> 2577

<212> DNA

<213> Homo sapiens

<220>

<223> nm\_003011.1 SET translocation (myeloid leukaemia-associated)

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| gccgacgaga cctcagaaaa agaacagcaa gaagcgattg aacacattga tgaagtacaa | 120 |
| aatgaaatag acagacttaa tgaacaagcc agtgaggaga ttttgaaagt agaacagaaa | 180 |
| tatacaaac tccgcaacc atttttctag aagaggtcag aattgatcgc caaaatccca   | 240 |
| aatttttggg taacaacatt tgtcaacat ccacaagtgt ctgcaactgt tggggaggaa  | 300 |

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| tcaggttaca  | gaatagattt  | ttattttgat | gaaaatcctt | actttgaaaa  | taaagttctc | 420  |
| tccaaaagaat | ttcatctgaa  | tgagagtggg | gatccatctt | cgaagtcac   | cgaatcaaa  | 480  |
| tggaaatctg  | gaaaggattt  | gacgaaacgt | tcgagtcaaa | cgcagaataa  | agccagcagg | 540  |
| aagaggcagc  | atgaggaacc  | agagagcttc | tttacctggg | ttactgacca  | ttctgatgca | 600  |
| ggtgctgatg  | agtttaggaga | ggtcatcaaa | gatgatattt | ggccaaaccc  | attacagtac | 660  |
| tacttggttc  | ccgatattga  | tgatgaagaa | ggagaaggag | aagaagatga  | tgatgatgat | 720  |
| gaagaggagg  | aaggattaga  | agatattgac | gaagaagggg | atgaggatga  | aggtgaagaa | 780  |
| gatgaagatg  | atgatgaagg  | ggaggaagga | gaggaggatg | aaggagaaga  | tgactaaata | 840  |
| gaacactgat  | ggattccaac  | cttccttttt | ttaaaatttc | tcagtcacct  | gggagcaagt | 900  |
| tgcagctctt  | tttttttttt  | tttttttttt | cctctcttgg | ctcagtcgcc  | ctgttcttga | 960  |
| ggtctctttt  | ctctactcca  | tggttctcaa | tttatttggg | gggaaatacc  | ttgagcagaa | 1020 |
| tacaatggga  | aaagagtctc  | tacccttttc | tgttcgaagt | tcatttttat  | cccttccgtg | 1080 |
| ctgaacaaaa  | actgtatgga  | atcaacacca | ccgagctctg | tgggaaaaaa  | gaaaaacctg | 1140 |
| ctccctttgc  | tctgctggaa  | gctggagggt | gctaggcccc | tgtgtagtag  | tgtatagaat | 1200 |
| tctagctttt  | ttcctccttt  | ctctgtatat | tgggctcaga | gagtacactg  | tgtctctatg | 1260 |
| tgaatatgga  | cagttagcat  | ttaccaacat | gtatctgtct | actttctctt  | gtttaaaaaa | 1320 |
| agaaaaaaaa  | acttaaaaaa  | atgggggtat | agaaggctag | caaaggggtg  | gggtttgaga | 1380 |
| tgtttgggtg  | ggttagtgga  | cattttgaca | acatggcttc | tcctttggca  | tgtttaattg | 1440 |
| tgatatttga  | cagacatctt  | tgagtttaa  | gatgacactt | ttaaaataaa  | ttctctccta | 1500 |
| atgatgactt  | gagccctgcc  | actcaatggg | agaatcagca | gaacctgtag  | gatcttattt | 1560 |
| ggaattgaca  | ttctctattg  | taattttggt | cctgtttatt | tttgggtttc  | tttttgtttc | 1620 |
| actggaagg   | aaagatgatg  | ctcagtttta | aacgttaaaa | gtgtacaagt  | tgctttgtta | 1680 |
| caataaaact  | aaatgtgtac  | acaaaggatt | tgatgctttt | ctctcagcat  | aggtatgctt | 1740 |
| actatgacct  | tccaagtgtg  | acttgtataa | catcactgtc | aaactttgtc  | accctaactt | 1800 |
| cgtatttttt  | gatacgcact  | tttgaggat  | gacctcaggg | ctatgtggat  | tgagtaatgg | 1860 |
| gatttgaatc  | aatgtattaa  | tatctccata | gctgggaaac | gtgggttcaa  | tttgccattg | 1920 |
| gtttctgaaa  | agtaattcaca | tcatttgga  | taccagatag | ctcaatactc  | tctgagtaca | 1980 |
| ttgtgccctt  | gatttttatc  | tccaagtggc | agtttttaaa | attggccttt  | tacctggata | 2040 |
| taaattaatt  | gtgcctgcca  | ccaccatcca | acagacctgg | tgctctaattg | ccaagtata  | 2100 |
| cacgggacag  | ttgtcggcat  | gtcttcattg | gctctctaaa | atgtggccaa  | gaagataggc | 2160 |
| tctcagtaag  | aagtctgatg  | gtgagcagta | actgtccctg | ctttctggta  | taaagctctc | 2220 |

|  |      |
|--|------|
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| tgtgcagaga agcaccctaa tgcataagct ttttaagtct gtaaaatata gtcgctgaaa  | 2340 |
| ttaaatgccca ctttttcaga ggtgaattaa tggacagtct ggtgaacttc aaaagctttt | 2400 |
| tgatgtataa aacttgataa atggaactat tccatcaata ggcaaaagtg taacaaccta  | 2460 |
| tctagatgga tagtatgtaa tttctgcaca ggtctctgtt tagtaaatat atcactgtat  | 2520 |
| accgatcagg aatcttgctc caataaagga acataaagat ttaaaaaaaaa aaaaaaa    | 2577 |

<210> 104

<211> 7577

<212> DNA

<213> Homo sapiens

<220>

<223> XM\_030577.9| PREDICTED: ATPase, Class II, type 9A (ATP9A), mRNA

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| gtctggctgg ggcaccccca gaagagagac cagaggtatc ctcggaatgt catcaacaat  | 180  |
| cagaagtaca atttcttcac ctttcttcct ggggtgctgt tcaaccagtt caaatacttt  | 240  |
| ttcaacctct atttcttact tcttgccctgc tctcagtttg ttcccgaaat gagacttggt | 300  |
| gcactctata cctactgggt tcccctgggc ttcgtgctgg ccgtcactgt catccgtgag  | 360  |
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| cggctcacag cagcaggcac agtgaagggt aagagttcta acatccaagt tggagacctt  | 480  |
| atcatcggtg aaaagaacca gcgggtccct gccgacatga tcttcctgag gacatcagaa  | 540  |
| aaaaacgggt catgcttctt gcggacggat cagctggatg gggagacgga ctggaagctg  | 600  |
| cggcttcccc tggcctgcac gcagaggctc cccacggccg ccgaccttct tcagattcga  | 660  |
| tcgtatgtgt acgcagaaga gccaaatatt gacattcaca acttcgtggg aacttttacc  | 720  |
| cgagaagaca gcgaccccc gatcagcgag agcctgagca tagagaacac gctgtgggct   | 780  |
| ggcactgtgg tcgcatcagg tactgttgtg ggtgtttgtc tttaactgag cagagaactc  | 840  |
| cggagtgtca tgaataacct aaatccccga agtaagatcg gcctgttcga cttggaagtg  | 900  |
| aactgcctca ccaagatcct ctttggtgcc ctggtggtgg tctcgtggt catggttgcc   | 960  |
| cttcagcact ttgcaggccc ttggtacctg cagatcatcc gcttcctcct cttgttttcc  | 1020 |
| aacatcatcc ccattagtgt gcgtgtgaac ctggacatgg gcaagatcgt gtacagctgg  | 1080 |
| gtgattcgaa gggactcgaa aatccccggg accgtggttc gctccagcac gattcctgag  | 1140 |

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| atgattttca | aacggctcca | tctcgggaaca | gtagcctacg | gcctcgactc | aatggacgaa | 1260 |
| gtacaaagcc | acattttcag | catttacacc  | cagcaatccc | aggaccacc  | ggctcagaag | 1320 |
| ggcccaacgc | tcaccactaa | ggtcggcg    | accatgagca | gccgcgtgca | cgaagccgtg | 1380 |
| aaggccatcg | cgtctcgcca | caacgtgact  | cccgtgtatg | agtccaacgg | tgtgactgat | 1440 |
| caggctgagg | ccgagaagca | gtacgaagac  | tcctgccgcg | tataccaggc | atccagcccc | 1500 |
| gatgagggtg | ccctggtaca | gtggacggaa  | agtgtgggct | taaccctggt | gggccgagac | 1560 |
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| aatgactggt | tggaggaaga | gtgtggcaac  | atggcccag  | aagggctcgc | ggtgctcgty | 1800 |
| gtggcaaaga | agtctcttgc | agaggagcag  | tatcaggact | ttgaagcccg | ctacgtccag | 1860 |
| gccaagctga | gtgtgcacga | ccgtccctc   | aaagtggcca | cggtgatcga | gagcctggag | 1920 |
| atggagatgg | aactgctgtg | cctgacgggc  | gtggaggacc | agctgcaggc | agatgtcgg  | 1980 |
| cccacgctgg | agaccctgag | gaatgctggc  | atcaagggtt | ggatgctgac | aggggacaag | 2040 |
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| tacaagacat | tcttaatatg | ggttttgatt  | agcatctatc | aagggagcac | catcatgtac | 2820 |
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| acagtggcgg | agctgctcag | cctggcctgc  | tacatcgcc  | ccctggtgtt | cttacacgag | 3000 |
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| agctactcaa | agctcacatc | ataggccgtg | cgctcgctgg | agggggccct | ggtcttggcg | 3180 |
| cttccctgat | ggacagagct | caagttccat | ttatattaac | cgccacctgt | ggattttgca | 3240 |
| gtaattgcta | acacatgcag | ttttaatggg | aagtggctct | gcgcctaaac | ggagtcctaa | 3300 |
| cgctgcatca | acggggagga | gggtcctgaa | agagacccat | ctgggcctgt | ctgaacccct | 3360 |
| cgttcttcat | gttttaggtg | atatgaatat | gttaaagctg | gtggctcagc | tgggagattt | 3420 |
| atatgggtca | ctgtgcgagc | ttccttatga | cttgaatttt | gtgtgcacat | gataaaagtt | 3480 |
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| agaggtgtca | gaaaaataga | aagctcttgg | tgctgggttg | ggaggaaaag | acagtgacat | 3660 |
| ttggtaaaaa | gttatccaca | caataatctc | cattcggaag | tgctcagtat | cgtctccagc | 3720 |
| cagccctgct | tatccaggtt | acactggatt | cctgggacgc | taaccagtaa | atgagaggag | 3780 |
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| aggaggcata | atggaagatg | accccacaaa | ggcagaggca | tctttcggaa | caacactggt | 4200 |
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| tatccttcaa | accctctgcc | tggcgctact | tctgtgtgct | tcagagatgt | acatcacagc | 4620 |
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| ggcggaggcg  | gtcaagggtg  | agaagtaccg | acactcaagt | gcaaactgcc  | acgtcgttgg  | 5520 |
| cccatcccat  | cagtgggcag  | ctggctgacg | ccattcactg | gacggtccct  | gaacacctag  | 5580 |
| gaatgcacac  | accgtgcttc  | tcagacactg | gagacgcaaa | ggcaggagga  | tgacgtccgg  | 5640 |
| tgagaggaca  | cgatctttac  | ctgcacaatc | agactgtaag | cccagcagag  | aaccccaggg  | 5700 |
| gcgcctgggt  | acttctcgga  | ggtcacttta | gttgtggtgg | ggaagacaaa  | gaaataagca  | 5760 |
| aacaagaaac  | tagagtctact | atacaagaaa | ctctcctgag | tttgtaaacc  | ttaagcataa  | 5820 |
| ggattcagtt  | gacctttttc  | ttggttcac  | aatctggaaa | gaacttacat  | aaagcgccat  | 5880 |
| tgacactgtc  | acctgggagc  | tccatgggcc | gtaagtcttt | gacagccaat  | ttaatttgag  | 5940 |
| gtcagagggc  | cttgaggtag  | acagtcagca | ctgtttgaac | acttttctg   | aaagcaaac   | 6000 |
| tcacagctcc  | ctgcgcccct  | tgacaacact | agctatttct | gccagagtaa  | gaacttctat  | 6060 |
| tactatttta  | ttattgttca  | tatgtctttt | gatgatggtt | gtgtgacagg  | gggaagcagg  | 6120 |
| atctattttg  | tttcttcccc  | tccccccacc | ccttctcttt | tgtctctctt  | ttttttctc   | 6180 |
| taagaaaatc  | accagactag  | tttttccatc | ttgagtaatt | tcttatgtgg  | gacagttttg  | 6240 |
| atcctcattt  | tgaagcatg   | cgtgtgcaca | tgtgtgttgc | ctgtggtgcc  | aggtgagaca  | 6300 |
| ggtggcacta  | actccagctg  | cttggaaggc | atcccaaggg | cgcactctaa  | agttggagca  | 6360 |
| gacctccctt  | ttccagcccc  | tggggccatt | agaccacgtg | ctggaactag  | cattgtaaaa  | 6420 |
| ttcccatccc  | agttccactc  | ccctgaagtg | aaaccccttt | ttttttgtga  | cagtaaatct  | 6480 |
| taaaaatcat  | tgtctcttta  | tgaacatttc | ctcagtttct | tctctgctga  | aaatgtaagc  | 6540 |
| catgctactt  | tttaattgat  | tttgaatttt | gtgctcattg | gaaattgata  | tgctaattgcc | 6600 |
| tccccacc    | cccgcagac   | ttttcttttt | atactttgtc | ttgtttttac  | tggggtaggc  | 6660 |
| tgggcattcg  | tgctgtccct  | tagggcagca | ttttaaacct | ttgcaaaat   | tgcaaatggg  | 6720 |
| acatgtacat  | tcttctgctc  | cattctactt | aaacacctat | cagctatttt  | tatctttaac  | 6780 |
| cttttctgta  | tgtttgaagt  | gtgtgggggg | tgtgtgtgtg | tgtgaaagag  | cgagagaatg  | 6840 |
| atgtcatcta  | aagttttttg  | aagaattatt | tggttttcat | tgcatataaa  | ttctatcact  | 6900 |

|  |      |
|--|------|
| cccagctttg ttttcattta aaaaaatata caaagagctt tgtaaataca acacatttta  | 6960 |
| tttctccccc ttcttttaat gtacagcttt tttgccactt atatatactt aaaatattcc  | 7020 |
| catgaattat gtccagttct tcttgaaaa aaatttggtt ttgaatgaac ctgcaaagca   | 7080 |
| tcctgcagcg tgagcagctc ctccacctgg agctccgaag catcttctca ggccaaagcg  | 7140 |
| gcattaccgg tgaatctgtc ttctccgcc cagcatggtt tgaggcgagc tctgttaata   | 7200 |
| tagctggggc atgtcagtga ctgttggtt tgtggggcca ggtggggggc atggtatttg   | 7260 |
| caaaaaaac aaattatggc taatttatta ttttggtgca gtgggggttaa ctgtaaacctc | 7320 |
| atgtaagagt ctgtgatttc ctcatgggtt gatctctctc tctgtaatcc tcattgcaaa  | 7380 |
| ttttaccag gacagcgttt ttgattaga ggggagctct ggcacagtat gctttaattt    | 7440 |
| agcaggaaat tccagatgat ttaaatctc gatgctgtga tgacacacat atgacttttc   | 7500 |
| gtgtttctga gcgactctac ttcatgtt tgcacagctg gctcgttgct gttgccaat     | 7560 |
| aaagcttggt tacgttc   | 7577 |

<210> 105

<211> 1672

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004503.2| homeo box C6 (HOXC6), transcript variant 1, mRNA

|   |     |
|---|-----|
| <400> 105   |     |
| ttttgtctgt cctggattgg agccgtccct ataaccatct agttccgagt acaaactgga | 60  |
| gacagaaata aatattaaag aaatcataga ccgaccaggt aaaggcaaag ggatgaattc | 120 |
| ctacttcact aacccttctc tatcctgcc cctcgccggg ggccaggagc tcttcccaa   | 180 |
| cgctgcctc aattccaccg cctatgatcc agtgaggcat ttctcgacct atggagcggc  | 240 |
| cgttgccag aaccggatct actcgactcc cttttattcg ccacaggaga atgtcgtgtt  | 300 |
| cagttccagc cgggggccgt atgactatgg atctaattcc ttttaccagg agaaagacat | 360 |
| gctctcaaac tgacagaaa acaccttagg acataacaca cagacctcaa tcgctcagga  | 420 |
| ttttagtctt gagcagggca ggactgcgcc ccaggaccag aaagccagta tccagattta | 480 |
| cccctggatg cagcgaatga attcgcacag tggggtcggc tacggagcgg accggaggcg | 540 |
| cggccgccag atctactcgc ggtaccagac cctggaactg gagaaggaaat ttcactcaa | 600 |
| tcgctaccta acgcggcgcc ggcgcacga gatcgccaac gcgttttgcc tgaccgagcg  | 660 |
| acagatcaaa atctggttcc agaaccgccg gatgaagtgg aaaaaagaat ctaattctac | 720 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| atccactctc | tcggggggcg | gcggaggggc  | caccgccgac | agcctgggcg | gaaaagagga | 780  |
| aaagcgggaa | gagacagaag | aggagaagca  | gaaagagtga | ccaggactgt | ccctgccacc | 840  |
| cctctctccc | tttctccctc | gtcctcccacc | aactctcccc | taatcacaca | ctctgtattt | 900  |
| atcactggca | caattgatgt | gttttgattc  | cctaaaacaa | aattagggag | tcaaacgtgg | 960  |
| acctgaaagt | cagctctgga | ccccctccct  | caccgcacaa | ctctctttca | ccacgcgcct | 1020 |
| cctcctcctc | gtcctcttgc | tagctcgttc  | tcggcttgtc | tacaggccct | tttccccgtc | 1080 |
| caggccttgg | gggctcggag | cctgaactca  | gactctacag | attgccctcc | aagtgaggac | 1140 |
| ttggctcccc | cactccttgc | acgccccac   | ccccgcccc  | cgtgcagaga | gccggtcctt | 1200 |
| gggcctgctg | gggcctctgc | tccagggcct  | cagggcccg  | cctggcagcc | ggggaggggc | 1260 |
| ggaggcccaa | ggagggcgcg | ccttggtccc  | acaccaacc  | ccagggcctc | cccgcagtcc | 1320 |
| ctgcctagcc | cctctgtccc | agcaaatgcc  | cagcccaggc | aaattgtatt | taagaatcc  | 1380 |
| tgggggtcat | tatggcattt | tacaaactgt  | gaccgtttct | gtgtgaagat | ttttagctgt | 1440 |
| atttgtggtc | tctgtattta | tatttatgtt  | tagcaccgtc | agtgttccta | tccaatttca | 1500 |
| aaaaaggaaa | aaaaagaggg | aaaattacaa  | aaagagagaa | aaaaagtga  | tgacgtttgt | 1560 |
| ttagccagta | ggagaaaata | aataaataaa  | taaatccctt | cgtgttacc  | tcctgtataa | 1620 |
| atccaacctc | tgggtccggt | ctcgaatatt  | taataaaact | gatattattt | tt         | 1672 |

<210> 106

<211> 3394

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_004764.2| piwi-like 1 (Drosophila) (PIWIL1), mRNA

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 106  |            |            |            |            |            |     |
| gttgccctcg | ggctgaggtg | caaggaccag | gactagggcg | agggcagcg  | tccaagaaat | 60  |
| agaaaacaat | gactgggaga | gcccagacca | gagccagagg | aagggcccg  | ggtcaggaga | 120 |
| cagcgcagct | ggtgggtctc | actgccagtc | agcaacctgg | ttatatttag | cctagccctc | 180 |
| agccgcacc  | agcagagggg | gaattatttg | gccgtggacg | gcagagagga | acagcaggag | 240 |
| gaacagccaa | gtcacaagga | ctccagatat | ctgctggatt | tcaggagtta | tcgttagcag | 300 |
| agagaggagg | tcgtcgtaga | gattttcatg | atcttggtgt | gaatacaagg | cagaacctag | 360 |
| accatgttaa | agaatcaaaa | acagggttct | caggcattat | agtaaggtta | agcactaacc | 420 |
| atttcggctc | gacatcccg  | ccccagtggt | ccttatatca | gtatcacatt | gactataacc | 480 |
| cactgatgga | agccagaaga | ctccgttcag | ctcttctttt | tcaacacgaa | gatctaattg | 540 |



|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| gaaagtgtca | tgcttttgat  | ggaacgatat  | tatTTTTacc | taaaagacta | cagcaaaagg  | 600  |
| ttactgaagt | ttttagtaag  | accCGgaatg  | gagaggatgt | gaggataacg | atcactttaa  | 660  |
| caaatgaact | tccacTaca   | tcaccaactt  | gtttgcagtt | ctataatatt | attttcagga  | 720  |
| ggcttttgaa | aatcatgaat  | ttgcaacaaa  | ttggacgaaa | ttattataac | ccaaatgacc  | 780  |
| caattgatat | tccaagtCac  | aggttggtga  | ttggcctgg  | cttCactact | tccatccttc  | 840  |
| agtatgaaaa | cagcatcatg  | ctctgcactg  | acgttagcca | taaagtcctt | cgaagtgaga  | 900  |
| ctgttttgga | tttcatgttc  | aactttttatc | atcagacaga | agaacataaa | tttcaagaac  | 960  |
| aagtttccaa | agaactaata  | ggtttagttg  | ttcttaccaa | gtataacaat | aagacataca  | 1020 |
| gagtggatga | tattgactgg  | gaccagaatc  | ccaagagcac | ctttaagaaa | gccgacggct  | 1080 |
| ctgaagtcag | cttcttagaa  | tactacagga  | agcaatacaa | ccaagagatc | accgacttga  | 1140 |
| agcagcctgt | cttggtcagc  | cagcccaaga  | gaaggcgggg | ccctgggggg | acactgccag  | 1200 |
| ggcctgccat | gctcattcct  | gagctctgct  | atcttacagg | tctaactgat | aaaatgcgta  | 1260 |
| atgattttaa | cgtgatgaaa  | gacttagccg  | ttcatacaag | actaactcca | gagcaaaggc  | 1320 |
| agcgtgaagt | gggacgactc  | attgattaca  | ttcataaaaa | cgataatgtt | caaagggagc  | 1380 |
| ttcgagactg | gggtttgagc  | tttgattcca  | acttactgtc | cttctcagga | agaattttgc  | 1440 |
| aaacagaaaa | gattcaccaa  | ggtggaaaaa  | catttgatta | caatccacaa | tttgagatt   | 1500 |
| ggtccaaaga | aacaagaggt  | gcaccattaa  | ttagtgttaa | tccactagat | aactggctgt  | 1560 |
| tgatctatac | gcgaagaaat  | tatgaagcag  | ccaattcatt | gatacaaaat | ctattttaag  | 1620 |
| ttacaccagc | catgggcatg  | caaatgaaaa  | aagcaataat | gattgaaagt | gatgacagaa  | 1680 |
| ctgaagccta | cttaagagtc  | ttacagcaaa  | aggtcacagc | agacaccCag | atagtgtgtc  | 1740 |
| gtctgttgtc | aagtaatcgg  | aaggacaaat  | acgatgctat | taaaaaatac | ccgtgtacag  | 1800 |
| attgccctac | cccaagtcatg | tgtgtgggtg  | cccgaacctt | aggcaaacag | caaactgtca  | 1860 |
| tggccattgc | tacaaagatt  | gccctacaga  | tgaactgcaa | gatgggagga | gagctctgga  | 1920 |
| gggtggacat | ccccctgaag  | ctcgtgatga  | tcgttggcat | cgattgttac | catgacatga  | 1980 |
| cagctgggCg | gaggtCaact  | gcaggatttg  | ttgccagcat | caatgaagg  | atgaccCgct  | 2040 |
| ggttctcagc | ctgcataatt  | caggatagag  | gacaggagct | ggtagatggg | ctcaaaagtct | 2100 |
| gcctgcaagc | ggctctgagg  | gcttggaata  | gctgcaatga | gtacatgccc | agccggatca  | 2160 |
| tcgtgtaccg | cgatggcgta  | ggagacggcc  | agctgaaaac | actggtgaac | tacgaagtgc  | 2220 |
| cacagttttt | ggattgtcta  | aaatccattg  | gtagaggtta | caaccctaga | ctaaccgttaa | 2280 |
| ttgtggtgaa | gaaaagagtg  | aacaccagat  | tttttgctca | gtctggagga | agacttcaga  | 2340 |
| atccacttcc | tggaaCagtt  | attgatgtag  | aggttaccag | accagaatgg | tatgactttt  | 2400 |
| ttatcgtgag | ccaggctgtg  | agaagtggta  | gtgtttctcc | cacacattac | aatgtcatct  | 2460 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| atgacaacag | cggcctgaag | ccagaccaca | tacagcgctt | gacctacaag | ctgtgccaca | 2520 |
| tctattacaa | ctggccagg  | gtcattcgtg | ttcctgctcc | ttgccagtac | gccacaagc  | 2580 |
| tggtttttc  | tggtggccag | agtattcaca | gagagccaaa | tctgtcactg | tcaaaccgcc | 2640 |
| tttactacct | ctaaccgtca | gaagacgatg | cagccgcttt | tctttttgaa | atgactttgg | 2700 |
| gattttttta | agcttttatt | tacttttttt | ttaaactgta | tctttctgga | tgaactttgg | 2760 |
| gaaggggatt | aggagatcta | gcattttatt | tctagcattg | ctattcacgc | gcttccttat | 2820 |
| tttataccta | aaaattaaga | ttttatattt | tatcttcttg | tttctcatag | atattttgtg | 2880 |
| agcatttttt | tgtttttttt | gaagaaatgt | ggataagata | cttggtagta | taaaacagac | 2940 |
| tctctgagag | tatttgaat  | gtgtttggag | atttacttaa | acgtactttc | aggagtgcgc | 3000 |
| aagtcttact | tataaaccta | tattaacttt | atttttgaga | tacctgtttt | gaatttaaa  | 3060 |
| gagataagag | gcgtaaagta | ggatgctcac | tacaaccata | ggtgggggtt | cagctcatat | 3120 |
| cttaagata  | aaaggtacta | ttatataacc | tatacacaag | atacaggaga | aaatatgctt | 3180 |
| gatttttatt | tggcaggggg | gctaggttgt | atgggagtaa | aaaaaacatt | gaaaattttt | 3240 |
| aaattgtcca | aagaaacatt | ttaagactct | ttacaaaaaa | aggcatgag  | taaatctcta | 3300 |
| tattaacatt | actatttatt | ttgttttgga | actgggacat | gattctattt | gttataaaat | 3360 |
| aaaattgatg | tgattgtcaa | aaaaaaaaaa | aaaa       |            |            | 3394 |

<210> 107

<211> 2524

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000249.2| mutL homolog 1, colon cancer, nonpolyposis type 2  
(E. coli) (MLH1), mRNA

|            |            |             |             |             |            |     |
|------------|------------|-------------|-------------|-------------|------------|-----|
| <400> 107  |            |             |             |             |            |     |
| attggctgaa | ggcacttcg  | ttgagcatct  | agacgtttcc  | ttggctcttc  | tggcgcaaaa | 60  |
| atgtcgttcg | tggcaggggt | tattcggcgg  | ctggacgaga  | cagtgggtgaa | ccgcatcgcg | 120 |
| gcgggggaag | ttatccagcg | gccagctaata | gctatcaaa   | agatgattga  | gaactgttta | 180 |
| gatgcaaaa  | ccacaagtat | tcaagtgtat  | gttaaaagagg | gaggcctgaa  | gttgattcag | 240 |
| atccaagaca | atggcacccg | gatcaggaaa  | gaagatctgg  | atattgtatg  | tgaaggttc  | 300 |
| actactagta | aactgcagtc | ctttgaggat  | ttagccagta  | ttctacctta  | tggttttcga | 360 |
| ggtgaggctt | tgccagcat  | aagccatgtg  | gctcatgtta  | ctattacaac  | gaaaacagct | 420 |
| gatggaaagt | gtgcatacag | agcaagttac  | tcagatggaa  | aactgaaagc  | ccctcctaaa | 480 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ccatgtgctg | gcaatcaagg | gacccagatc | acggtggagg | acctttttta | caacatagcc | 540  |
| acgaggagaa | aagctttaa  | aaatccaagt | gaagaatatg | ggaaaatttt | ggaagtgtgt | 600  |
| ggcaggtatt | cagtacacaa | tgcaggcatt | agtttctcag | ttaaaaaaca | aggagagaca | 660  |
| gtagctgatg | ttaggacact | acccaatgcc | tcaaccgtgg | acaatatctg | ctccatcttt | 720  |
| ggaaatgctg | ttagtcgaga | actgatagaa | attggatgtg | aggataaaac | cctagccttc | 780  |
| aaaatgaatg | gttacatatc | caatgcaaac | tactcagtga | agaagtgcac | cttcttactc | 840  |
| ttcatcaacc | atcgtctggt | agaatcaact | tccttgagaa | aagccataga | aacagtgat  | 900  |
| gcagcctatt | tgcccaaaaa | cacacacca  | ttcctgtacc | tcagtttaga | aatcagtcct | 960  |
| cagaatgtgg | atgttaattg | gcacccaca  | aagcatgaag | ttcacttcct | gcacgaggag | 1020 |
| agcatcctgg | agcgggtgca | gcagcacatc | gagagcaagc | tcctgggctc | caattctctc | 1080 |
| aggatgtact | tcaccagac  | tttgctacca | ggacttgctg | gcccccttgg | ggagatgggt | 1140 |
| aaatccacaa | caagtctgac | ctcgtcttct | acttctggaa | gtagtgataa | ggtctatgcc | 1200 |
| caccagatgg | ttcgtacaga | ttcccgggaa | cagaagcttg | atgcatttct | gcagcctctg | 1260 |
| agcaaacccc | tgtccagcta | gccccaggcc | attgtcacag | aggataagac | agatatctct | 1320 |
| agtggcaggg | ctaggcagca | agatgaggag | atgcttgaac | tcccagcccc | tgctgaagtg | 1380 |
| gctgccaaaa | atcagagctt | ggagggggat | acaacaaagg | ggacttcaga | aatgtcagag | 1440 |
| aagagaggac | ctacttccag | caacccaga  | aagagacatc | gggaagattc | tgatgtggaa | 1500 |
| atggtggaag | atgattcccc | aaaggaaatg | actgcagctt | gtaccccccg | gagaaggatc | 1560 |
| attaacctca | ctagtgtttt | gagtctccag | gaagaaatta | atgagcaggg | acatgagggt | 1620 |
| ctccgggaga | tgttgcataa | ccactccttc | gtgggctgtg | tgaatctca  | gtgggccttg | 1680 |
| gcacagcatc | aaaccaagtt | ataccttctc | aacaccacca | agcttagtga | agaactgttc | 1740 |
| taccagatac | tcattttatg | ttttgccaat | tttgggtgtc | tcaggttatc | ggagccagca | 1800 |
| ccgctctttg | accttgccat | gcttgcccta | gatagtcag  | agagtggctg | gacagaggaa | 1860 |
| gatgggtcca | aagaaggact | tgctgaatac | attgttgagt | ttctgaagaa | gaaggctgag | 1920 |
| atgcttgcat | actatttctc | tttggaaatt | gatgaggaag | ggaacctgat | tggattaccc | 1980 |
| cttctgattg | acaactatgt | gccccctttg | gagggactgc | ctatcttcat | tcttcgacta | 2040 |
| gccactgagg | tgaattggga | cgaagaaaag | gaatgttttg | aaagcctcag | taaagaatgc | 2100 |
| gctatgttct | attccatccg | gaagcagtac | atatctgagg | agtcgacctc | ctcaggccag | 2160 |
| cagagtgaag | tgcttggtct | cattccaac  | tcctggaagt | ggactgtgga | acacattgtc | 2220 |
| tataaagcct | tgcgctcaca | cattctgcct | cctaacatt  | tcacagaaga | tggaaatata | 2280 |
| ctgcagcttg | ctaacctgcc | tgatctatac | aaagtctttg | agaggtgtta | aatatggtta | 2340 |
| tttatgcact | gtgggagtgt | ttcttcttct | tctgtattcc | gatacaaaag | gtgtgatcaa | 2400 |

|             |              |            |            |            |            |      |
|-------------|--------------|------------|------------|------------|------------|------|
| agtgatgatat | acaaagtgtgta | ccaacataag | tgttggtagc | acttaagact | tatacttgcc | 2460 |
| ttctgatag   | attcctttat   | acacagtggg | ttgattataa | ataaatagat | gtgtcttaac | 2520 |
| ataa        |              |            |            |            |            | 2524 |

<210> 108

<211> 2928

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_001313.2| collapsin response mediator protein 1 (CRMP1), mRNA

|            |             |             |            |             |             |      |
|------------|-------------|-------------|------------|-------------|-------------|------|
| <400> 108  |             |             |            |             |             |      |
| ccgatccggg | cggtgctggc  | agccggagcg  | gcggcgggcg | ggccgagcag  | ccggggcagc  | 60   |
| cgcgctggg  | catccacggg  | cgccgagcct  | ccgtccgtgt | ctctatccct  | ccggggccct  | 120  |
| tgtagcgcg  | cccgtggga   | gcggggccga  | gagcgccggt | tccagtcaga  | cagccccgca  | 180  |
| ggtagcggc  | cgggccgagg  | gcgccagagg  | gggcatgtc  | gtaccagggc  | aagaagagca  | 240  |
| tcccgcacat | cacgagtgc   | cgactcctca  | tcaaagggtg | acggatcatc  | aacgatgacc  | 300  |
| aatcccttta | tgtgtgagtc  | tacctggagg  | atggacttat | caaacaata   | ggagagaact  | 360  |
| taatctgttc | tggtggagtg  | aagaccattg  | aagccaacgg | gcggatggtt  | attccccggag | 420  |
| gtattgatgt | caacacgtac  | ctgcagaagc  | cctcccaggg | gatgactgcg  | gctgatgact  | 480  |
| tcttccaagg | gaccaggggc  | gcactggttg  | gcgggaccac | gatgatcatt  | gacctgttg   | 540  |
| ttctgaacc  | tgggtccagc  | ctactgacct  | ctttcgagaa | gtggcacgaa  | gcagctgaca  | 600  |
| ccaaatcctg | ctgtgattac  | tcctccacg   | tggacatcac | aagctgttac  | gatggcgttc  | 660  |
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| cctataagga | tgctctacaa  | atgtccgaca  | gccagctcta | tgaagccttt  | accttcctta  | 780  |
| agggcctggg | agctgtgtac  | ttggtccatg  | cagaaaaatg | agatttgata  | gctcaggaac  | 840  |
| aaaagcggat | cctggagatg  | ggcatcacgg  | gtcccagggg | ccatgccctg  | agcagacctg  | 900  |
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| ctgtgtacat | caccaaggtc  | atgagcaaga  | gtgcagccga | catcatcgct  | ctggccagga  | 1020 |
| agaaagggcc | cctagttttt  | ggagagccca  | ttgccgccag | cctggggacc  | gatggcacc   | 1080 |
| attactggag | caagaactgg  | gccaaaggctg | cggcgttcgt | gacttcccct  | cccctgagcc  | 1140 |
| cggaccctac | cacgcccgac  | tacttgacct  | ccctactggc | ctgtggggac  | ttgcaggtca  | 1200 |
| caggcagcgg | ccactgtccc  | tacagcactg  | cccagaaggc | ggtggggcaag | gacaacttta  | 1260 |
| ccctgatccc | cgaggggtgtc | aacgggatag  | aggagcggat | gacggtcgtc  | tgggacaagg  | 1320 |

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| cacccatcag  | aaacctccac  | cagtccaact  | tcagcttatt | aggtgcccg   | atagatgaca  | 1860 |
| acaatcccg   | gcgcaccggc  | caccgcatcg  | tggcgcccc  | tggtgccgc   | tccaacatca  | 1920 |
| ccagcctcgg  | ttgaacgtgg  | atgcgcggag  | gagctagcct | gaaggattct  | gggaatcatg  | 1980 |
| tccatccctt  | ttcctgtcag  | tgtttttgaa  | acccacagtt | ttagttgggt  | ctgatggagg  | 2040 |
| gagggggaag  | tcgaaggatg  | ctctttccct  | tttctgttta | ggaagaagtg  | gtactagtgt  | 2100 |
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<210> 109

<211> 1609

<212> DNA

<213> Homo sapiens

<220>  
 <223> NM\_002145.2| homeo box B2 (HOXB2), mRNA

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<210> 110  
 <211> 3262

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_002860.2| aldehyde dehydrogenase 18 family, member A1 (PYCS/ALDH18A1), mRNA

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| agagactcta aatgtgaata tccagctgcc tgtaatgctt tgggactttt gttaatccac  | 1920 |
| cgggactctg tcaggacacc attatttgac cagatcattg atatgctgag agtggaaacag | 1980 |
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| gaggaatatc tacagcagtg atgcttgaaa tttttgatg aattattttg tcgtcctacc   | 3180 |
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| ttgagaaata aagtttttta tg   | 3262 |

<210> 111

<211> 2899

<212> DNA



<213> Homo sapiens

<220>

<223> NM\_005655.1| TGFB inducible early growth response (TIEG), mRNA

<400> 111

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| attcctttga | atattttttg | aagggttcag | atgagggtcaa | cacaggtagc | acagattttg  | 1860 |
| aatctgtgtg | catatttgtt | actttacttt | tgctgtttat  | acttgagacc | aacttttcaa  | 1920 |
| tgtgattcct | ctaagcact  | ggtttcaaga | atatggaggc  | tggaaggaaa | taaaccattac | 1980 |
| ggtacagaca | tggagatgta | aaatgagttt | gtattattac  | aaatattgtc | atctttttct  | 2040 |
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<210> 112

<211> 3138

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_018223.1| checkpoint with forkhead and ring finger domains (CHFR), mRNA

<400> 112

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| cccgatggag | cgccccgagg | aaggcaagca | gtcgccgcgc | cgcgaccct  | ggggacggct | 120 |
| cctgcgtctg | ggcgcgagg  | agggcgagcc | gcacgtcctc | ctgaggaagc | gggagtgga  | 180 |
| catcgggcgc | agacgaggtt | gcgacctttc | cttcccagc  | aataaactgg | tctctggaga | 240 |

|            |             |            |             |             |             |      |
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| cagtggaaca | gtgattaaca  | agctgaaggt | tgtaagaag   | cagacatgcc  | ctttacagac  | 360  |
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| tgccaggaat | aaaatcactc  | aagacatgct | gcagcccaaa  | gtcaggcggt  | ctttttctga  | 1140 |
| tgaagaaggg | agttcagagg  | acctgctgga | gctgtcacag  | gttgacagtg  | agtcctcaga  | 1200 |
| cattagccag | ccatacgtcg  | tgtgccggca | gtgtcctgag  | tacagaaggc  | aggcgccgca  | 1260 |
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| acccccacg  | tccgtcagcc  | tgacgacagc | agtcaggat   | tacgtgtgcc  | ctctgcaagg  | 1380 |
| aagccacgcc | ctgtgcacct  | gctgttcca  | gcccatgcc   | gaccggagag  | cggagcgca   | 1440 |
| gcaggaccg  | cgtgtcgccc  | ctcagcagtg | tcggtctgc   | ctgcagcctt  | tctgccacct  | 1500 |
| gtactggggc | tgcaccggga  | ccggctgcta | cggctgcctg  | gccccgtttt  | gtgagctcaa  | 1560 |
| cctgggtgac | aagtgtctgg  | acggcgtgct | gaacaacaac  | agctacgagt  | cagacatcct  | 1620 |
| gaagaattac | ctggcaacca  | gaggtttgac | atggaaaaac  | atgttgaccg  | agagcctcgt  | 1680 |
| ggctctccag | cggggagtgt  | ttctgctgtc | tgattacaga  | gtcacgggag  | acaccgttct  | 1740 |
| gtgttactgc | tgtggcctgc  | gcagcttcg  | tgagctgacc  | tatcagtatc  | agcagaacat  | 1800 |
| tctgtcttc  | gagttgccag  | tggccgtaac | atcccgctct  | gactgctact  | ggggccgtaa  | 1860 |
| ctgccgcact | caggtgaaag  | ctcaccacgc | catgaaattc  | aatcatatct  | gtgaacagac  | 1920 |
| aagggtcaaa | aactaagcat  | ccagaggccc | tgagcagctt  | tcagcactgg  | aggtgaagag  | 1980 |
| agcgtgtttt | taaaatacac  | aggcaagcac | gtcaagggtg  | tttcacagcc  | ccctgagggga | 2040 |
| agggacgcag | ggctctccgac | aggtgctctg | gggtgactct  | tctgtggagc  | ttaccctct   | 2100 |
| gagtgagacc | ctccccagag  | ccccgggggc | cgcagcccg   | cctcctgggtg | agcgtgggc   | 2160 |

|            |            |             |             |            |             |      |
|------------|------------|-------------|-------------|------------|-------------|------|
| agggctcgtg | gtggcatcag | cagcagagac  | gaagcctttc  | tgtaacatgc | ggccgtcctg  | 2220 |
| ccgagagggg | cagttttgct | cttttgtaga  | ttttccgaaa  | ctacagttaa | agcggaagtc  | 2280 |
| tgttttcagg | aaaagtttca | agggagaagg  | gcaagtttat  | caaaaacatt | gtttcaggag  | 2340 |
| aaggagcat  | aagtttacag | cctacaggac  | gtacacaata  | tcctgctgct | gggaaaacca  | 2400 |
| cagcatttta | tctatttttt | attttaatag  | gtttggtgct  | tatcttctaa | taagatttaa  | 2460 |
| atgtcacaaa | ctgtagcaca | aataatataa  | tttataattt  | acaaattgac | taaaattggg  | 2520 |
| tatagtatgg | tatttgaagg | aataagcata  | tgcttctggt  | tattaaaaaa | agaaaccttc  | 2580 |
| caatgtccaa | aactgttaac | cctcgacgtg  | gccgcccaagt | tagtcgtctc | ttgctaaccg  | 2640 |
| gtgagtgacc | gcggcccccg | gcctggggct  | ggacgcaggt  | cccaggacat | gctgtccctt  | 2700 |
| tggtgtagtg | accgcggccc | cgagcctggg  | gctggacgca  | ggtcccagga | cgtgctgctc  | 2760 |
| cctgtgtgta | gtgaccacgg | ccccaaagccc | agggctggag  | gcaggtccca | ggacgcgccg  | 2820 |
| ctccctcatg | ctgccggggc | ccttctctca  | agaccttaca  | gagcctgagg | ggcaccttgg  | 2880 |
| cttccgcctg | tgctagcttt | gccatgtcat  | ctggaataat  | acttgaaatt | ttgattcttg  | 2940 |
| gaaaaaaaaa | tttcttatct | ttgttgaaa   | tcacctgtta  | tccttgtttg | taaaactgata | 3000 |
| acttttttgc | ttcttctcag | gaatacagtt  | ttcaactggt  | gtcttgctct | tgatagaaac  | 3060 |
| tgagaagcag | caatctgtat | ttgtggagga  | aagtcctctc  | ttttgcatat | tctaataaat  | 3120 |
| gagccgcgtt | tgctcctc   |             |             |            |             | 3138 |

<210> 113

<211> 2466

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_024645.1| hypothetical protein FLJ13842 (FLJ13842), mRNA

<400> 113

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| gtccagagcc  | acagcttcgc  | tctactgctc  | ggcagggcag | ctggcctctg  | ggcaccggcg | 120 |
| gcccctctgc  | ctgcgggaaa  | agcctgatga  | agtcctccga | tattgatcag  | gatttattca | 180 |
| cagacagtta  | ctgcaagggtg | tgcaagtgcac | agctgatctc | cgaatcgag   | cgtgtggccc | 240 |
| actacgagag  | tcgaaaacat  | gcaagcaaag  | tccgactgta | ttacatgctt  | cacccagggg | 300 |
| atggaggggtg | tcttgccaag  | aggctccggt  | cagaaaaatg | aagtgatgcc  | gacatggtgg | 360 |
| ataagaacaa  | gtgctgcaca  | ctctgcaaca  | tgtcattcac | ttcagcgggtg | gtggccgatt | 420 |

|             |            |             |             |             |             |      |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| cccattatca  | aggcaaaatc | cacgccaaga  | ggttaaaact  | cttgctagga  | gagaagaccc  | 480  |
| cattaaagac  | cacagcaaca | cccctgagcc  | cacttaagcc  | cccacggatg  | gacactgctc  | 540  |
| cgggtggtcgc | atctccctat | caaagaagag  | attcagacag  | atactgtggg  | ctctgtgacg  | 600  |
| cctggtttaa  | taaccctctg | atggcccagc  | aacattatga  | tggcaagaaa  | cacaaaaaga  | 660  |
| atgcggaag   | agttgctttg | ttagaacaac  | tggggacaac  | cctggatatg  | ggggaaactga | 720  |
| gaggtctgag  | gcgcaattac | agatgtacca  | tctgcagtgt  | ctccctaaac  | tcaatagaac  | 780  |
| agtatcatgc  | ccatctgaaa | ggatctaaac  | accagaccaa  | cctgaagaat  | aagtagtgaa  | 840  |
| agcatcaatc  | aagacataag | aacaaaacat  | tagcatttct  | ctgccgtgga  | gaattgctta  | 900  |
| tcaaccacca  | gaggaggctt | ctttcttgaa  | caataaacat  | ttcttataag  | gattcacaga  | 960  |
| ttcacatacg  | actgatcttg | atttttggaa  | atgaatgagg  | tttctttttt  | cttttctctt  | 1020 |
| tttttaattt  | tggggtaaat | tatgatattt  | ggatggattt  | ttaaattctt  | tcctgataac  | 1080 |
| atatttagca  | catgttctaa | attataatcc  | tatagcaaac  | agttggagca  | ttattcaaac  | 1140 |
| tgaaagtggg  | aaaatttaaa | ttccaattt   | attctagatt  | tcctcagagc  | ataattattc  | 1200 |
| tgttaaatcc  | tcaatgagtg | tgatgtaaac  | cacctctatc  | cagaaatata  | cattcttttc  | 1260 |
| tcacatgttt  | ggacacagtt | gagggtgaca  | tgacacagaac | tggacagatg  | cactattagt  | 1320 |
| ggaaaatacc  | aaatggacaa | ataaatacca  | gtcgttttct  | ccgttctcca  | agcacaggag  | 1380 |
| ccaggtttac  | catctgaaca | atgaagacga  | agggagtaaa  | taaaggaaga  | attctcatct  | 1440 |
| tttttctcta  | tcattcaaa  | aacagtttct  | caaggttaag  | ccaagtcttc  | cttgcaagtt  | 1500 |
| gccaaataat  | agcttaggaa | aagaattagt  | ctgcctgcac  | gatgatcttc  | ttaggcaaaa  | 1560 |
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| ttataaacc   | cagaacgaga | tggaaataaa  | caagtatttt  | tttttatga   | tgtttggcct  | 1680 |
| gaactgtggg  | ctttaattgg | gggatactga  | tcgtttggaa  | agaagtgaga  | aaattctgaa  | 1740 |
| gaaatggcgg  | ccttgggcta | ggcgggggtcc | cctatttctt  | ctgtttctca  | ctgaagtctt  | 1800 |
| actgctgagc  | caagactcag | tcactctgga  | aagagcatga  | ccgataaaga  | aaacagttcc  | 1860 |
| tttctgatgg  | ggagcgtctg | agtgacagac  | atgaggctct  | ttctctaggt  | ttaatctttt  | 1920 |
| tccatggtga  | ccggacttgg | tgtctgttag  | cctggtttacg | aagtgaggacg | ttgagcttct  | 1980 |
| actgacgatg  | ccctgcatgg | accagctggg  | atctggctgg  | ggctgccctg  | tgtccctaac  | 2040 |
| gaccataggc  | aatccatctt | cttgtgtcag  | caatttctgg  | acaccactg   | ttttccacca  | 2100 |
| agagctgagg  | tggcaacaac | tcagtgaagca | ataaacaaaa  | tgacacagaa  | atgcacagtg  | 2160 |
| ttgttatgaa  | ggagcctgtt | tacctgtgtt  | caaatcttgg  | caccattccc  | ttgagcaggg  | 2220 |
| cccgtctcag  | agggaccagg | tctgccagtt  | tctgtgcctg  | cagagagacg  | aagccccacg  | 2280 |
| agccacaccc  | tactctacaa | gaggaaaagg  | ggttggtgatg | gaagaatcta  | ttttgtgtgt  | 2340 |

|   |      |
|---|------|
| ttggaagca cacagccgac ctacaaacct cctgtgatgg tgttcttcg gatgtgtaaa   | 2400 |
| ataaggcttt atttgtcaat tccgctgtaa aataagcatt gtccgagtaa aaacagcagc | 2460 |
| aacaac  | 2466 |

<210> 114

<211> 3658

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_025195.2| tribbles homolog 1 (Drosophila) (TRIB1), mRNA

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| ctgagcgcgt ctgcctcgct ctcatcacg cccggagccc aggagcgcctc aggatcccga     | 120  |
| gcgccgcgaa aaagtgtccc cggcttttgc tggagactca tcgttttggg aagtgcattt     | 180  |
| gcttcgtggc tccgccgagc ctgctgaatc ctgtcctcgc ggcacgggac cccgggatcg     | 240  |
| ctgaccgctg ccgccgccgc ctctgcctcc cggactatcg gcagcctcgg caacaatagt     | 300  |
| ggcgggccgc cccagcgagg ctccgggagc cttgccttgc gggggtccgg ggaactcgagc    | 360  |
| cggcctccgc ctcccggagc cacagccagc gtggtccccg cgtgcaacgc gagcgccggg     | 420  |
| gagtggtccc tgcctttgcc ctctgtgggg ccgagccaag accagtctgc aaactccatc     | 480  |
| ccgccggctg gaagaagtcg cggagccggc accaaacccg cagcgtcttc ccgcgcggat     | 540  |
| cccgggactt aaaaagccgc ggccaccccg gcccaggagc ggaatcggggt cggtcgggtg    | 600  |
| cgctctgccg tgagcggcgc ctgcagccc cgcggcccg ccctgctctt cccagccacc       | 660  |
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| gggccagacc gcatcgccga ctacctgctg ctgcccctag ccgagcgcg gcatgtgtcc      | 900  |
| cgggcgctgt gcatccacac tggacgcgag ctgcgctgca aggtgtttcc cattaacac      | 960  |
| taccaggaca aaatcaggcc ttacatccag ctgccatcgc acagcaacat tactggcatt     | 1020 |
| gtggaagtga tccttggggg aaccaagccc tatgtcttct ttgagaagga ctttggggac     | 1080 |
| atgcactctt atgtgcgaag ccggaagagg ctgcgggaag aggaagccgc ccggtctctc     | 1140 |
| aagcagattg tctccgccgt cgcctactgc caccagtcag ccatcgtgct gggggacctg     | 1200 |
| aagcttagga agttcgtctt ctccacggag gagagaacct agcttagact agaaagtcta     | 1260 |
| gaagacacac acataatgaa gggggaagat gatgctttgt cagacaaaca tggctgccca     | 1320 |

|   |            |      |
|---|------------|------|
| gcctacgtga gccctgagat cctcaacacc actgggacct actccgga    | ggctgcggac | 1380 |
| gtttggagcc tgggggtgat gctctacacc cttctggtg gacgatacc    | cttccatgac | 1440 |
| tcagacccca gtgccctttt ctccaaaatt cggcgtggac agttctgcat  | tcctgagcac | 1500 |
| atttccccc aagccagggt cctcattcgc agcctcttga gacgggagcc   | ctccgagaga | 1560 |
| ctcactgccc ccgagatcct actgcacccc tggtttgagt ccgtcttga   | acccgggtac | 1620 |
| atcgactcag aaataggaac ttcagaccag attgttcag agtaccagga   | ggacagtgc  | 1680 |
| attagtctct tcttctgcta atcccaaaa ctcagaaac ctcataattc    | ttaacacctg | 1740 |
| gcatttccat ttctaagat ggacaggccc ttggcgtgg taccaaccag    | ataatgactg | 1800 |
| catcaggatg aaagctgctg aactcgcat ggcctcctct cttctctgtt   | gggatgagtg | 1860 |
| actttattga ttgagcagc atatgctgtg attggctgcc ctgcaaat     | gtttccctta | 1920 |
| aggaaccctc accaactatc tctgtctgat ttgggagttc cgcattctt   | gtggagggca | 1980 |
| gagtatggac atcttacac cgggtgtcaa gtgtgtaata aacttgagca   | ttcgaatggg | 2040 |
| agaaaaagca aatcgacaa tgacatattt tgagtaataa ccgtatttt    | cacagggtga | 2100 |
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| catttacaa tgactctgct ccgtttttg agcagactgt ttaagtgtc     | tcaggagcct | 2280 |
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| ggaacagtat cacaaaagat tccatctccc aacgatttca gaactctgag  | ctcagagaga | 2460 |
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| aaatatgtta gtacctacc ttacttttt cccaagacc atctcagggt     | ggagcattct | 2580 |
| gtctaagaga agaaagataa ggaggctccc acccacctct cccaagagca  | gacattaaac | 2640 |
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| agaattatac ttaaacctt cccagatatg gtccgccttt ggcatgtgt    | gtacatctgc | 2760 |
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| cccctacaaa agatggagct taatggagaa attgcaactt catttaaaa   | acaaattcag | 3060 |
| atgaaatatt agtaactgtc ttggacagtg ctgaaatcag gtggttaaac  | gggtaacaa  | 3120 |
| aatatactgt attttgagaa atggcacaaa aacaggcagt catctttaag  | ggctatgcct | 3180 |
| aggcaaaacta ctaacatgca ttgtgagaat gccgtgtata cctcacgtac | tgtgtacttt | 3240 |

|  |      |
|--|------|
| gtacatatat tttacctttt atacctatgt tcgattttgt tttgttttgt tttgttctgg  | 3300 |
| ctttgaggct tgttttgttg tctgtgtctg tctgaataac ctgcgtgtct aaaaccacgt  | 3360 |
| gaaatgtgaa tgattattgg caatattacc ttgacagaat catgggactt tgaagaagagg | 3420 |
| gaggacagag gcctctgtcg cactaacgct ctctgtggtg ctgcactgtt gtatctgtga  | 3480 |
| tacattatcc gactaaggac tctgggctgg cagggccttc tgccgggaaa gctagaaca   | 3540 |
| ctaggttctt cctgtacata cgtgtatata tgtgaacagt gagatggccg tttctgactt  | 3600 |
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<210> 115

<211> 4624

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_033331.1| CDC14 cell division cycle 14 homolog B (S. cerevisiae) (CDC14B), transcript variant 2, mRNA

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| ctgcagcccc gtcgcctcgg ccgcgccagc cggctgcggg cacctggggg cgggctgggg | 180  |
| gcgccggcgg cggcaggagg cgctgtagcg agggctgcgg cgcgggtcct gcgcggccg  | 240  |
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| agatccgcag ctccacgcag caagaccgc gccgcgggga cccccaggac gacgtgtacc  | 600  |
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| atgtacatta ttccagcata gataatgaac ttgaatatga gaactctac cgagattttg  | 720  |
| gaccactcaa tctggcaatg gtttacagat attgttgcaa gatcaataag aaattaaagt | 780  |
| ccattacaat gtttaaggaa aaaattgttc attttactgg ctctgatcag agaaaaaag  | 840  |
| caaatgctgc cttccttgtt ggatgctaca tgggtatata ttgggggaga accccagaag | 900  |
| aagcatatag aatattaatc ttggagaga catctatat tccttcaga gatgctgcct    | 960  |
| atggaagtgt caatttctac attacacttc ttgactgttt tcatgcagta aagaaggcaa | 1020 |



|             |            |            |            |            |             |      |
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| tgcagtatgg  | cttccttaat | ttcaactcat | ttaaccttga | tgaatatgaa | cactatgaaa  | 1080 |
| aagcagaaaa  | tggagattta | aattggataa | taccagaccg | atttattgcc | tctctgtggac | 1140 |
| ctcattcaag  | agccagacct | gaaagtgggt | accaccaaca | ttctcctgag | acttatattc  | 1200 |
| aatattttaa  | gaatcacaa  | gttactacca | ttattcgtct | gaataaaagg | atgtatgatg  | 1260 |
| ccaaacgctt  | tacggatgct | ggcttcgatc | accatgatct | tttctttgcg | gatggcagca  | 1320 |
| ccccacttga  | tgcatttgtc | aaagaattcc | tagatatctg | tgaaaatgct | gagggtgcca  | 1380 |
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| gacttcgggc  | cttgaaaagc | agaagacaat | ccaaaacaaa | cgctattcct | ctcacagtaa  | 1800 |
| ttcttcaatc  | cagtgttcag | agctgtaaaa | catctgaacc | taacatttct | ggcagtgtag  | 1860 |
| gcattactaa  | aagaaccacc | agatctgctt | caaggaaaag | cagtgttaaa | agtctctcca  | 1920 |
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| ctctaggact  | gaaaactgca | acagaaatta | gcacaatttg | aaaacaaaac | aaaattgcaa  | 2040 |
| aagccttagt  | tgctttttcc | acctaagaag | ttgatcaatg | gagaaaaatg | ccactggagt  | 2100 |
| ttgaataatg  | aactttgagt | ttgggtgcaa | gcaaatgact | cagagaagg  | tccagctctc  | 2160 |
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<211> 3919

<212> DNA

<213> Homo sapiens

<220>

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| ggtggatgtg | gacaactatg  | gccccatcat  | cttggctgtg | cataggactc  | cagagggcgt  | 1980 |
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| ctcttctcag | ctgggttttc  | tgttcaacat  | ggccatgcta | gccaccatgg  | tgggtgcagat | 2100 |
| cctgcggctg | cgccccaca   | cccaaaagtg  | gtcacatgtg | ctgacactgc  | tgggcctcag  | 2160 |
| cctggctcct | ggcctgccct  | gggccttgat  | cttcttctcc | tttgcttctg  | gcaccttcca  | 2220 |
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| taggtgactg | tccccacatc  | tgcccccaacc | cagctggagg | cctggtctct  | ccttacaacc  | 2700 |
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<211> 7401

<212> DNA

<213> Homo sapiens

<220>

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| tttcaccgcg gaccaggacc accgccaccg tcaacccccct cccccctcg ccgctcaatg  | 180  |
| gcgccttggt gcccagcggc agccccgccca ccagcagcgc gctgtcggcc caggccgcgc | 240  |
| catcctccag ctttgccgcc gcgctgcgca agctcgccaa acaggcggag gagccagag   | 300  |
| ggtcctcact gagcagcgag tcgtccccg tgctctctcc ggccaccaac cacagctccc   | 360  |
| ccgccagcac acccaagcgc gtgcccattg gccctatcat cgtccccctt gggggccaca  | 420  |
| gcgtgccag cccccccccc gtggtgacca tcgctccaac caaaaccgtg aatggtgtct   | 480  |
| ggaggagtga gagccggcag gatgccggct ccaggagcag cagtggagggt cgggaacgcc | 540  |
| tcatttgtag gccccgcct cctcaggaga aggcaggggg accagccatc cctctgcacc   | 600  |
| tgctcagcac cccctacccc ttcggcctct cccccagctc agttgtgcag gattcccgt   | 660  |
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| agcgtgagaa | ggagcgcgag  | cgcgagctgg | agcgccagcg  | ggagcagcgg | gccccgggaga | 1260 |
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| tctcaaaaac  | gaaagcacac  | caccaagac   | acagtaccca  | gtcatggttt | ccccatccaa  | 6240      |      |
| ctattagttt  | catactttga  | aaacttactt  | tcagattatt  | ctcaagaac  | acagtagcac  | 6300      |      |
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| gcatggcggg tcagttccgc agctacgtgt gggaccgcct gctgatcctg tcgcagatcg  | 240 |
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| cccctccagg ccggctctcc atgatgtcct tcattcctca cgcctcacc tgtgccctgg   | 420 |
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| ggacggagct caaggagata cccctcaact cagcccctaa atccaatgtc tagaatcagg  | 660 |
| ccctttggac atcctgctga cacttgggcc ccttaacacc ttgggctgct cagaccctcc  | 720 |
| agatgaggtc cagcccagat ctgagaggaa ccctggaaat gtgaagtctc tgttggtttg  | 780 |
| ggagagatag tgagggcctg tcaaagaagg caggtagcag tcagcatgac agctgcaaga  | 840 |
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| agccacagaa agaaatgtag gtgtgaagta ttaggctgct gtcagggaga ggatggcaga  | 1200 |
| tggaggcatc aagcacaaag aaaatgcaca acctgtgccc tgttatacac acgttcattgt | 1260 |
| gcaccaaga acctatgact ttcttcagtt tcttcttacc aggtcccat cctgctgcca    | 1320 |
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| ggtaacacaa atgagttttg ctatctctct gagaagctca tctgacctc tgactctcag   | 2100 |
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| aaagtaacaa taaaagcagc ttttagagtt gagttccaga gagggcaggg caatggcagt  | 2700 |
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 variant 2, mRNA  
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| tcacacctcc | aaagctgagt | gcctttgtgg | atgaagcaaa | gacgtatgca | gccgaataca | 1740 |
| ccctgcagac | cctgggcatc | cccactgatg | gaggcgatgg | caccatggct | actgctgctg | 1800 |
| ctgctgctac | tgctttccca | ggatatgctg | tccttaatgc | aactgcaccc | gtgtctgcag | 1860 |
| cccagctcaa | gcaagcggtg | acccttggtg | aagacttagc | agcatataca | acctatgagg | 1920 |
| tctaccaaac | ttttgcagtg | actgcccag  | gggatggata | tggcaccttc | tgaagatgct | 1980 |
| tttttaaat  | taagaataag | acacacaaaa | ctctattaaa | aaaaaaaaag | aaataaacct | 2040 |
| ctaactcgg  | ccccaatgat | cataaataat | atgtttccta | aagaaatgcc | tttccagaga | 2100 |
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<223> NM\_145343.1| apolipoprotein L, 1 (APOL1), transcript variant 2,  
mRNA

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| tacagaaact | ggtttctgaa agagtttcct cggttgaaaa gtgagcttga ggataacata 780  |
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| atcacagccg | ctttgaccgg  | gattaccagc  | agtaccatgg | actacggaaa | gaagtgtgtg | 1020 |
| acacaagccc | aagcccacga  | cctgggtcatc | aaagccttg  | acaaattgaa | ggagggtgag | 1080 |
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|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| tggtgggcca | tggccatggt | ccccagctga | ggagcaggtg | tcctgagaa  | cccaaaacttc | 2820 |
| ccagagagta | tgtgagaacc | aaccaatgaa | aacagtccca | tcgctcttac | ccggttaagta | 2880 |
| aacagtcaga | aaattagcat | gaaagcagtt | tagcattggg | aggaagctca | gatctctaga  | 2940 |
| gctgtcttgt | cgccgcccag | gattgacctg | tgtgtaagtc | ccaataaact | cacctactca  | 3000 |
| tcaagctgga |            |            |            |            |             | 3010 |

<210> 121

<211> 2759

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_080796.1| death associated transcription factor 1 (DATF1), transcript variant 2, mRNA

|            |            |   |
|------------|------------|---|
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| gcgagacct  | agaggcctgc | ggcctgcgga gcttactcca cgggaacagc ctctagataa 120   |
| tctgagttgt | tgaataatcg | aagcctgtta ctctgaaca gtggctgaca acagtgttgt 180    |
| tgtgagcctg | gctgtctgct | tggaccaga ggttctgtct gccagggttt ttggttgtat 240    |
| ttaggatttc | agggaaaagt | gtccaagctt tcagtgttgg agcaggatg gacgacaaag 300    |
| gcgacccgag | caatgaggag | gcacctaaagg ccatcaaacc caccagcaaa gagttcagga 360  |
| aaacatgggg | ttttcgaagg | accactatcg ccaagcgaga gggcgagagg gacgcggagg 420   |
| ctgaccact  | ggagccgcga | ccccacagc agcagctggg cctgtccctg cggcgagtg 480     |
| ggaggcagcc | caagcgcact | gagcgcgtgg agcagttcct gaccattgcy cggcgccgcy 540   |
| gcaggaggag | catgcctgtc | tcctggagg attctggtga gccacgtcc tgccccgcca 600     |
| cagagccga  | gacagcctcc | gagggcagcg tggaaagcgc ttctgagacc agaagcggcc 660   |
| cccagctcgc | ttccacagct | gtgaaggaaac gaccagcctc ttctgaaaag gtgaaaggag 720  |
| gggatgacca | cgatgacacc | tccgatagtg acagcgatgg cctgaccttg aaagagcttc 780   |
| agaatcgct  | tcgcaggaag | cggaacagg agccactga gagggccctg aaagggatcc 840     |
| agagtcgct  | gcggaagaag | cgccgggagg aggtcccgcg gagactgtg ggctccgagg 900    |
| ccagtgacac | tgtggagggc | gtcctgccca gtaagcagga gcccgagaac gatcaggggg 960   |
| ttgtgtccca | ggctgggaaa | gatgacagag agagtaagtt ggagggaag gcggctcagg 1020   |
| acatcaaaga | tgaggagcct | ggagacttgg gccgaccgaa gcctgaatgt gaggggttacg 1080 |
| acccaacgc  | cctgtattgc | atttgccgcc agcctcaca caacaggttt atgatttgct 1140   |

|            |            |             |             |             |             |      |
|------------|------------|-------------|-------------|-------------|-------------|------|
| gtgaccgctg | tgaagaatgg | tttcatggcg  | attgtgtggg  | catttctgag  | gctcgagggg  | 1200 |
| ggcttttggg | aaggaatggg | gaagactata  | tctgccaaa   | ctgcaccatt  | ctgcaagtgc  | 1260 |
| aggatgagac | tcattcgaa  | acggcagatc  | agcaggaagc  | taaattggaga | cctgggagatg | 1320 |
| ctgatggcac | cgattgtaca | agtataggaa  | caatagagca  | gaagtctagc  | gaagaccaag  | 1380 |
| ggataaagg  | tagaatttag | aaagctgcaa  | atccaagtgg  | caagaagaaa  | ctcaagatct  | 1440 |
| tccagcctgt | gatagaggcg | cctgggtgcct | caaaatgtat  | tggccccggg  | tgctgtcacg  | 1500 |
| tggcgagcc  | cgactcggtg | tactgcagta  | atgactgtat  | cctcaaacac  | gccgcagcga  | 1560 |
| caatgaagtt | tctaagctca | ggtaaagaac  | agaagccaaa  | gcctaaagaa  | aagatgaaga  | 1620 |
| tgaagccaga | gaagccaggt | cttccgaaat  | gcggtgtctca | ggcaggtatt  | aaaatctctt  | 1680 |
| ctgtgcacaa | gagaccagct | ccagaaaaaa  | aagagaccac  | agtgaagaag  | gcagtgggtg  | 1740 |
| tccttcgctg | gagtgaagca | ctcgggaagg  | aagcagcttg  | tgagagcagc  | acgcgctcgt  | 1800 |
| ggcgagcga  | tcacaattac | aatgcagtaa  | agccagaaaa  | gactgctgct  | ccctcgccgt  | 1860 |
| cactgttgta | taaatgtatg | tatcacctag  | gggttggcct  | cctggacccc  | tcccgttctt  | 1920 |
| tctggatagc | catcccctgg | gcctgtccag  | gactgggagt  | tgagctttt   | tgtaaagctg  | 1980 |
| atcacagaca | ccggctgcac | catcagcggg  | aagcagagcc  | catgtccagg  | atgcctcctg  | 2040 |
| ctgccctgtg | tccatcccta | gtctgtcagg  | acttcctgtc  | actgttttcc  | aaagctgtaa  | 2100 |
| acctcactgg | tgaacgttca | ccttaatatg  | tgattcttta  | atctctgttt  | tcactctcag  | 2160 |
| gctctggtaa | gtattcgtat | tctcttcac   | ccagctctgat | tgcatagcca  | cactgcccg   | 2220 |
| cacgccacat | ccaccctgt  | gtgcacatga  | gttgttctga  | caacagcgct  | gtatacgctt  | 2280 |
| cagtttttcc | acattgtcca | cgccagcac   | atgaaagcat  | cacttctttt  | ttatgttgtg  | 2340 |
| ggaatctttg | caagtttagt | ttgcatctga  | ttttcaggtg  | tacatttatt  | tttgactggg  | 2400 |
| cagatagggg | attttttttt | ttccatgtcc  | gattcacacg  | ctacacaccc  | acatgaacac  | 2460 |
| attcgaactt | cgaaggccac | acactcctgc  | ttcataggcc  | ccacggtaag  | tgagttcaca  | 2520 |
| cctagaacac | tgtcctgacc | gcaggacgcg  | tgccctggac  | ttggtattct  | acatgtgact  | 2580 |
| ggctttcttg | ccctcgtctc | ttgaatgttt  | agactcttaa  | gatcatatcc  | tgccccaat   | 2640 |
| ttcaaattaa | tgaatgaag  | atatttcaaa  | cagatctttg  | aaacctcaga  | tctgtgggtg  | 2700 |
| caattttaat | gttttcttgt | ttctcagttt  | tctgtataaa  | aactattttc  | aattcagtc   | 2759 |

<210> 122

<211> 781

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_177953.1| dynein, cytoplasmic, light polypeptide 2A (DNCL2A), transcript variant 2, mRNA

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gcaccactgc actccaccct gggcagaggt ggaggagaca ctgaagcgac tgcagagcca    180
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tgcaccaacc ttcccagag ctccggagcg ccctctcctc acttccaggt ttggagcaa    660
gagcttgtag gaagcccga cccagcttcc ttctgacctt cagttcactt tgcgcctt    720
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a                                                                                   781

```

<210> 123

<211> 841

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_022873.1| interferon, alpha-inducible protein (clone IFI-6-16) (G1P3), transcript variant 3, mRNA

```

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cgggtatcgt tttcttgctc tacctgctgc tcttcacttg cagtgggggt gaggcagggt    180
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ggttctgtaa ggccctgacc ttcattggccg tcggaggagg actcgcagtc gccgggctgc    300
ccgcgtcggg cttcaccggc gccggcatcg cggccaactc ggtggctgcc tcgctgatga    360
gctggtctgc gatcctgaat gggggcgccg tgcccgcggg ggggctagtg gccacgtcgc    420
agagcctcgg ggctggtggc agcagcgtcg tcataggtaa tattggtgcc ctgatgggct    480

```



|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
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| cctctcttc  | cttcttggcc | taactcttcc | agttaggatc | tagaaccttg | cctttttttt | 600 |
| ttttttttt  | tttttttgag | atgggtcttc | actatatgtg | ccaggctaga | gtgcagtggc | 660 |
| tattcacaga | tgcgaacata | gtacttgca  | gcctccaact | cctagcctca | agtgatcctc | 720 |
| ctgtctcaac | ctcccaagta | ggattacaag | catgcgccga | cgatgccag  | aatccagaac | 780 |
| tttgtctatc | actctcccca | acaacctaga | tgtgaaaca  | gaataaactt | caccagaaaa | 840 |
| a          |            |            |            |            |            | 841 |

<210> 124

<211> 4652

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_183047.1| protein kinase C binding protein 1 (PRKCBP1), transcript variant 1, mRNA

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| atgcattcac | agagcttggc | tgaagaggaa | ataaaaacag | aacaggaggt | ggtagagggc  | 120  |
| atggatatct | ctactcgttc | caaagatcct | ggctctgcag | agagaacagc | ccagaaaaga  | 180  |
| aagttcccca | gccctccaca | ttcttccaat | ggccactcgc | cgcaggacac | atcaacaagc  | 240  |
| cccattaaaa | agaaaaagaa | acctggctta | ctgaacagta | acaataagga | cgagtcagaa  | 300  |
| ctaagacatg | gtccgtttta | ctatatgaag | cagccactca | ccacagaccc | tgttgatggt  | 360  |
| gtaccgcagg | atggacggaa | tgatttctac | tgctgggttt | gtcaccggga | aggccaagtc  | 420  |
| ctttgtctgt | agctctgtcc | ccgggtttat | cacgctaagt | gtctgagact | gacatcggaa  | 480  |
| ccagaggggg | actggttttg | tcctgaatgt | gagaaaatta | cagtagcaga | atgcatcgag  | 540  |
| accagagta  | aagccatgac | aatgctcacc | attgaacagt | tatctactct | gctcaagttt  | 600  |
| gccattcaga | aaatgaaca  | gccagggaca | gatgcattcc | agaagcccgt | tccattggaa  | 660  |
| cagcaccctg | actatgcgga | atacatcttc | catccaatgg | acctttgtac | attggaaaaa  | 720  |
| aatgcgaaaa | agaaaatgta | tggtgcaca  | gaagccttcc | tggtgatgac | aaagtggatt  | 780  |
| ttgcacaact | gcatcattta | taatggggga | aatcacaaat | tgacgcaa   | atgcgaaagta | 840  |
| gtcatcaaaa | tctgtgaaca | tgagatgaat | gaaatcgaag | tatgtccaga | atgttatcta  | 900  |
| gctgcttgcc | aaaaacgaga | taactgggtt | tgtgagcctt | gtagcaatcc | acatcctttg  | 960  |
| gtctggggca | aactgaaggg | gtttccattc | tggcctgcaa | aagctctaag | ggataaagac  | 1020 |
| gggcaggtcg | atgcccgtat | ctttggacaa | catgacaggg | cctgggttcc | aataaataat  | 1080 |

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
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| agtgccatgc  | aagagatgga  | ggtttacgtg | gagaacatcc | gcaggaagtt | tggggttttt | 1200 |
| aattactctc  | catttaggac  | accctacaca | cccaacagcc | agtatcaaat | gctgctcgat | 1260 |
| cccaccaacc  | ccagcgcccg  | cactgccaag | atagacaagc | aggagaaggt | caagctcaac | 1320 |
| tttgacatga  | cggcatcccc  | caagatcctg | atgagcaagc | ctgtgctgag | tgggggcaca | 1380 |
| ggccgcggga  | tttccttgtc  | ggatatgccg | cgtccccca  | tgagcacaaa | ctcttctgtg | 1440 |
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| acccctgttc  | cttctcatct  | tcccaagcgc | cagattcgta | gcaggttcca | gctgaatctt | 1800 |
| gacaagacca  | tagagagttg  | caaagcacia | ttaggcataa | atgaatctc  | ggaagatgtc | 1860 |
| tatagggcgg  | tagagcacag  | cgattcggag | gattctgaga | agtcagatag | tagcgatagt | 1920 |
| gagtatatca  | gtgatgatga  | gcagaagtct | aagaacgagc | cagaagacac | agaggacaaa | 1980 |
| gaaggttgtc  | agatggacaa  | agagccatct | gctgttaaaa | aaaagcccaa | gcctacaaac | 2040 |
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| gtccatttgg  | gcctggactc  | tgattcgag  | agcgaacttg | tcatagattt | aggagaagac | 2280 |
| cattctgggc  | gggagggtcg  | aaaaaataag | aaggaaacca | aagaaccatc | tcccaaacag | 2340 |
| gatgttgtag  | gtaaaactcc  | accatccacg | acggtgggca | gccatttctc | cccggaacaa | 2400 |
| ccggtgctca  | cccgtctctc  | cgcccaaact | tccgcggctg | gcgccacagc | caccaccagc | 2460 |
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|  |      |
|--|------|
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| agcaaggact caaaggcaag gtgcacgcag aggacgtttg agtctgggat gaagcatgta  | 4560 |
| cgtattattt atatgatgga atttcacgtt tttatgtaag catgaaacac aggcagtatg  | 4620 |
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<210> 125

<211> 3217

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_017452.1| stauferin, RNA binding protein (Drosophila) (STAU), transcript variant T2, mRNA

<400> 125

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<211> 3506

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_017453.1| staufer, RNA binding protein (Drosophila) (STAU), transcript variant T3, mRNA

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<211> 4538

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_199169.1| transmembrane, prostate androgen induced RNA (TMEPAI), transcript variant 2, mRNA

<400> 127

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<211> 4531

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_199170.1| transmembrane, prostate androgen induced RNA (TMEPAI), transcript variant 3, mRNA

<400> 128

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| tcgtgtggcc | ctccccctcc | acctccctgt  | gtataaatat | ttacatgtga | tgtctgtgtct | 1020 |
| gaatgcacaa | gctaagagag | cttgcaaaaa  | aaaaaagaaa | aaagaaaaaa | aaaaaccacg  | 1080 |
| tttctttgtt | gagctgtgtc | ttgaaggcaa  | aagaaaaaaa | atttctacag | tagtctttct  | 1140 |
| tgttcttagt | tgagctgcgt | gcgtgaatgc  | ttattttctt | ttgtttatga | taatttctact | 1200 |
| taactttaaa | gacataattg | cacaaaaacct | ttgtttaaag | atctgcaata | ttatatatat  | 1260 |
| aaatatatat | aagataagag | aaactgtatg  | tcgaggggca | ggagtatttt | tgtattagaa  | 1320 |
| gaggcctatt | aaaaaaaaaa | gttgttttct  | gaactagaag | aggaaaaaaa | tggcaatttt  | 1380 |
| tgagtgccaa | gtcagaaagt | gtgtattacc  | ttgtaagaaa | aaaaattaca | aagcaggggt  | 1440 |
| ttagagttaa | ttatataaat | gttgagattt  | tgactatttt | tttaataata | atatgtcagt  | 1500 |
| gcttgcttga | tggaaacttc | tcttgtgtct  | gttgagactt | taagggagaa | atgtcggaat  | 1560 |
| ttcagagtgc | cctgacggca | gagggtgagc  | ccccgtggag | tctgcagaga | ggccttgggc  | 1620 |
| aggagcggcg | ggctttcccg | aggggccact  | gtccctgcag | agtggatgct | tctgcctagt  | 1680 |
| gacaggttat | caccacgtta | tatattccct  | accgaaggag | acaccttttc | ccccctgacc  | 1740 |
| cagaacagcc | tttaaatcac | aagcaaaaata | gaaaggttaa | ccacggaggc | accgagtcc   | 1800 |
| aggtagtggt | tttgcccttc | ccaaaaatga  | aaataaactg | ttaccgaagg | aattagtttt  | 1860 |
| tcctcttctt | ttttccaact | gtgaagggtcc | ccgtgggggt | gagcatggtg | cccctcacaa  | 1920 |
| gccgcagcgg | ctgggtcccg | ggctaccagg  | gacatgccag | agggtctgat | gacttgtctc  | 1980 |
| tgcagggcgc | tttggtggtt | gttcagctgg  | ctaaagggtc | accggtgaag | gcaggtgcgg  | 2040 |
| taactgccgc | actggacctt | aggaaagccc  | aggatttcgc | aatctgacct | cctcctgtct  | 2100 |
| gtttcccttc | acggatcaat | tctcacttaa  | gaggccaata | aacaacccaa | catgaaaagg  | 2160 |
| tgacaagcct | gggtttctcc | caggataggt  | gaaagggtta | aatgagtaa  | agcagttgag  | 2220 |
| caaacaccaa | cccgagcttc | gggcgcagaa  | ttcttcacct | tctcttcccc | ttccatctc   | 2280 |
| ctttccccgc | ggaacaacg  | cttcccttct  | ggtgtgtctg | ttgatctgtg | ttttcattta  | 2340 |
| catctctctt | agactccgct | cttgttctcc  | agggtttcac | cagatagatt | tggggttggc  | 2400 |
| gggacctgct | ggtgacgtgc | agggtgaagga | caggaagggg | catgtgagcg | taaatagagg  | 2460 |

|            |             |             |            |            |             |      |
|------------|-------------|-------------|------------|------------|-------------|------|
| tgaccagagg | agagcatgag  | gggtggggct  | ttgggaccca | ccggggccag | tggtcgagac  | 2520 |
| ttgacgtctt | tcctccccat  | gggggtggga  | gggccccag  | ctggaagagc | agactcccag  | 2580 |
| ctgctacccc | ctcccttccc  | atggggagtgg | ctttccattt | tgggcagaat | gctgactagt  | 2640 |
| agactaacat | aaaagatata  | aaaggcaata  | actattgttt | gtgagcaact | tttttataac  | 2700 |
| ttccaaaaca | aaaacctgag  | cacagttttg  | aagtcttagc | cactcgagct | catgcagtgt  | 2760 |
| aaacgtgtgc | tttacgaagg  | tggcagctga  | cagacgtggg | ctctgcatgc | cgcagacctt  | 2820 |
| gtagaagtgt | ctcgttcatt  | ggcaacagca  | gaacctgcct | ctccgtgaag | tcgtcagcct  | 2880 |
| aaaatttgtt | tctctcttga  | agaggattct  | ttgaaaaggt | cctgcagaga | aatcagtaca  | 2940 |
| ggttatcccc | aaaggtacaa  | ggacgcactt  | gtaaagatga | ttaaaacgta | tctttccttt  | 3000 |
| atgtgacgcg | tctctagtgc  | cttactgaag  | aagcagtgc  | actcccgctg | ctcgggtgag  | 3060 |
| acgttccccg | acagtgcctc  | ctcacctgg   | gactggtatc | ccctcccagg | gtccaccaag  | 3120 |
| ggctctctgt | tttcagacac  | cccatcatcc  | tcgcgcgtcc | tcacctgtgc | tctaccaggg  | 3180 |
| aggtgcctag | cttggtgagg  | ttactcctgc  | tcctccaacc | tttttttgcc | aaggtttgta  | 3240 |
| cacgactccc | atctaggctg  | aaaacctaga  | agtgagcctt | gtgtgtgtgc | atggtgtcag  | 3300 |
| cccaaagcca | ggctgagaca  | gtcctcatat  | cctcttgagc | caaacgtgtt | gggtctcgtt  | 3360 |
| gcttcatggt | atggtctgga  | tttgtgggaa  | tggttttgcg | tgagaaaggg | gaggagagtg  | 3420 |
| gttgctgccc | tcagccggct  | tgaggacaga  | gcctgtccct | ctcatgacaa | ctcagtggtg  | 3480 |
| aagcccagtg | tcctcagctt  | catgtccagt  | ggatggcaga | agttcatggg | gtagtggcct  | 3540 |
| ctcaaaggct | gggcgcattc  | caagacagcc  | agcaggttgt | ctctggaaac | gaccagagtt  | 3600 |
| aagctctcgg | cttctctgct  | gaggggtcac  | cctttcctct | agatggtagt | gtgcacgtta  | 3660 |
| tctttgaaaa | ctcttggact  | gtccttgagg  | aggccctctt | ttccagtagg | aagttagatg  | 3720 |
| ggggttctca | gaagtggctg  | attggaaggg  | gacaagcttc | gtttcagggg | tctgccgttc  | 3780 |
| catcctggtt | cagagaaggc  | cgagcgtggc  | tttctctagc | cttgctactg | tctccctgcc  | 3840 |
| tgtaaatcac | cacctttcct  | ccagaggagg  | aaaattatct | cccctgcaaa | gcccggttct  | 3900 |
| acacagattt | cacaaattgt  | gctaagaacc  | gtccgtgttc | tcagaaagcc | cagtgttttt  | 3960 |
| gcaaagaatg | aaaagggacc  | ccatatgtag  | caaaaatcag | ggctggggga | gagccggggt  | 4020 |
| cattccctgt | cctcattggt  | cgccctatg   | aattgtacgt | ttcagagaaa | ttttttttcc  | 4080 |
| tatgtgcaac | acgaagcttc  | cagaaccata  | aaatatcccc | tcgataagga | aagaaaaatgt | 4140 |
| cgttgttgtt | gtttttctgg  | aaactgcttg  | aaatcttgct | gtactataga | gctcagaagg  | 4200 |
| acacagcccg | tcctccccctg | cctgcctgat  | tccatggctg | ttgtgctgat | tccaatgctt  | 4260 |
| tcacgttggt | tcctggcgtg  | ggaactgctc  | tcctttgcag | ccccatttcc | caagctctgt  | 4320 |
| tcaagttaaa | cttatgtaag  | ctttccgtgg  | catgcggggc | gcgcaccac  | gtccccgctg  | 4380 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| cgtaagactc | tgtatttggg | tgccaatcca | caggcctgaa | gaaactgctt | gttgtgtatc | 4440 |
| agtaatcatt | agtggcaatg | atgacattct | gaaaagctgc | aatacttata | caataaattt | 4500 |
| tacaattctt | tggaaaaaaa | aaaaaaaaaa | a          |            |            | 4531 |

<210> 129

<211> 2692

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_152871.1| tumor necrosis factor receptor superfamily,  
member 6 (TNFRSF6), transcript variant 2, mRNA

<400> 129

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| ccagcgaggc | ttcttccca   | tcctcctgac  | caccggggct | ttctgtgagc | tcgtctctga  | 120  |
| ttctcgcaaa | gagtgacaca  | caggtgttca  | aagacgcttc | tggggagtga | gggaagcggt  | 180  |
| ttacgagtga | cttggtctga  | gcctcagggg  | cgggcactgg | cacggaacac | accctgaggc  | 240  |
| cagcctggc  | tgcccaggcg  | gagctgcctc  | ttctcccgcg | ggttggttga | ccgctcagt   | 300  |
| acggagttag | ggaagctctt  | tcacttcgga  | ggattgtcta | acaacctatc | tgggcatctg  | 360  |
| gaccctccta | cctctggttc  | ttacgtctgt  | tgctagatta | tcgtccaaaa | gtgttaaatgc | 420  |
| ccaagtgact | gacatcaact  | ccaagggatt  | ggaattgagg | aagactgtta | ctacagttga  | 480  |
| gactcagaac | ttggaaggcc  | tgcatcatga  | tggccaattc | tgccataagc | cctgtccttc  | 540  |
| agggtgaaag | aaagctaggg  | actgcacagt  | caatggggat | gaaccagact | gcgtgccttg  | 600  |
| ccaagaaggg | aaggagtaca  | cagacaaaagc | ccatttttct | tcctaatgca | gaagatgtag  | 660  |
| attgtgtgat | gaaggacatg  | gcttagaagt  | ggaaataaac | tgaccccgga | cccagaatac  | 720  |
| caagtgcaga | tgtaaaccaa  | actttttttg  | taactctact | gtatgtgaac | actgtgacct  | 780  |
| ttgcacaaaa | tgtgaacatg  | gaatcatcaa  | ggaatgcaca | ctcaccagca | acaccaagtg  | 840  |
| caaagaggaa | gtgaagagaa  | aggaagtaca  | gaaaacatgc | agaaagcaca | gaaaggaaaa  | 900  |
| ccaaggttct | catgaatctc  | caaccttaaa  | tcctgaaaca | gtggcaataa | atttatctga  | 960  |
| tgttgacttg | agtaaaatata | tcaccactat  | tgctggagtc | atgacactaa | gtcaagttaa  | 1020 |
| aggcttttgt | cgaagaagt   | gtgtcaatga  | agccaaaata | gatgagatca | agaatgacaa  | 1080 |
| tgtccaagac | acagcagaac  | agaaagtcca  | actgcttcgt | aattggcatc | aacttcatgg  | 1140 |
| aaagaagaaa | gcgtatgaca  | cattgattaa  | agatctcaaa | aaagccaatc | tttgtactct  | 1200 |
| tcgacagaaa | attcagacta  | tcatcctcaa  | ggacattact | agtgactcag | aaaattcaaa  | 1260 |

|  |      |
|--|------|
| cttcagaaat gaaatccaaa gcttgggtcta gagtgaaaaa caacaaatc agttctgagt  | 1320 |
| atatgaatt agtggttgaa aagattctta atagctggct gtaataactg ctgggttttt   | 1380 |
| tactgggtac attttatcat ttattagcgc tgaagagcca acatatttgt agatttttaa  | 1440 |
| tatctcatga ttctgcctcc aaggatgttt aaaatctagt tgggaaaaca aacttcac    | 1500 |
| agagtaaatg cagtggcatg ctaagtaccc aaataggagt gtatgcagag gatgaaagat  | 1560 |
| taagattatg ctctggcatc taacatatga ttctgtagta tgaatgtaat cagtgtatgt  | 1620 |
| tagtacaat gtctatccac aggctaacc cactctatga atcaatagaa gaagctatga    | 1680 |
| ccttttgctg aaatatcagt tactgaacag gcaggccact ttgcctctaa attacctctg  | 1740 |
| ataattctag agattttacc atatttctaa actttgttta taactctgag aagatcatat  | 1800 |
| ttatgtaaag tatatgtatt tgagtgcaga atttaataa ggctctacct caaagacctt   | 1860 |
| tgacagattt attggtgtca tattatacaa tatttcaatt gtgaattcac atagaaaaca  | 1920 |
| ttaaattata atgtttgact attatatatg tgtatgcatt ttactggctc aaaactacct  | 1980 |
| acttctttct caggcatcaa aagcattttg agcaggagag tattactaga gctttgccac  | 2040 |
| ctctccattt ttgccttggt gctcatctta atggcctaata gcaccccaa acatggaaat  | 2100 |
| atcaccaaaa aataacttaat agtccaccaa aaggcaagac tgcccttaga aattctagcc | 2160 |
| tggtttggag atactaactg ctctcagaga aagtagcttt gtgacatgac atgaaccat   | 2220 |
| gtttgcaatc aaagatgata aaatagattc ttatttttcc cccacccccg aaaatgttca  | 2280 |
| ataatgtccc atgtaaaacc tgctacaat ggcagcttat acatagcaat ggtaaaatca   | 2340 |
| tcattctgga ttaggaaattg ctcttgcac accccaagt ttctaagatt taagattctc   | 2400 |
| cttactacta tcctacgttt aaatatcttt gaaagtttgt attaaatgtg aattttaaga  | 2460 |
| aataatattt atatttctgt aaatgtaaac tgtgaagata gttataaact gaagcagata  | 2520 |
| cctggaacca cctaaagaac ttccatttat ggaggatttt ttgcccctt gtgtttggaa   | 2580 |
| ttataaata taggtaaaag tacgtaatta aataatgttt ttggtaaaaa aaaaaaaaaa   | 2640 |
| aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa           | 2692 |

<210> 130

<211> 2730

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_152872.1| tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 3, mRNA

<400> 130

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|--|----|

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|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ccagcgaggc  | ttccttccca  | tctctctgac  | caccggggct  | tttcgtgagc  | tcgtctctga  | 120  |
| tctcgcgcaa  | gagtgacaca  | caggtgttca  | aagacgcttc  | tggggagtgga | gggaagcggt  | 180  |
| ttacgagtga  | cttggtctgga | gcctcagggg  | cgggcactgg  | cacggaacac  | accctgaggc  | 240  |
| cagccctggc  | tgcccaggcg  | gagctgcctc  | ttctcccgcg  | ggttggtgga  | cccgtcagct  | 300  |
| acggagttag  | ggaagctctt  | tcacttcgga  | ggattgtctca | acaacctatgc | tgggcactctg | 360  |
| gaccctccta  | cctctggttc  | ttactgtctgt | tgctagatta  | tcgtccaaaa  | gtgttaaatgc | 420  |
| ccaagtgact  | gacatcaact  | ccaagggatt  | ggaattgagg  | aagactgtta  | ctacagttga  | 480  |
| gactcagaac  | ttggaaggcc  | tgcatcatga  | tggccaattc  | tgccataagc  | cctgtcctcc  | 540  |
| agggtgaaag  | aaagctaggg  | actgcacagt  | caatggggat  | gaaccagact  | gcgtgccttg  | 600  |
| ccaagaaggg  | aaggagtaca  | cagacaaaagc | ccatttttct  | tccaaatgca  | gaagatgtag  | 660  |
| attgtgtgat  | gaaggacatg  | gcttagaagt  | ggaataaacc  | tgaccccgga  | cccagaatac  | 720  |
| caagtgcaga  | tgtaaaccaa  | actttttttg  | taactctact  | gtatgtgaac  | actgtgacct  | 780  |
| ttgcacaaaa  | tgtgaacatg  | gaatcatcaa  | ggaatgcaca  | ctcaccagca  | acaccaagtg  | 840  |
| caaagaggaa  | ggatccagat  | ctaacttggg  | gtggctttgt  | cttcttcttt  | tgccaattcc  | 900  |
| actaattgtt  | tgggtgaaga  | gaaaggaagt  | acagaaaaca  | tcagaaaagc  | acagaaagga  | 960  |
| aaaccaaggt  | tctcatgaat  | ctccaacctt  | aaatcctatg  | ttgacttgag  | taaatatatac | 1020 |
| accactattg  | ctggagtcac  | gacactaagt  | caagttaaag  | gctttgtctg  | aaagaatggt  | 1080 |
| gtcaatgaag  | ccaaaaataga | tgagatcaag  | aatgacaatg  | tccaagacac  | agcagaacag  | 1140 |
| aaagtccaac  | tgcttcgttaa | ttggcatcaa  | cttcatggaa  | agaaagaagc  | gtatgacaca  | 1200 |
| ttgattaaag  | atctcaaaaa  | agccaatctt  | tgtactcttg  | cagagaaaat  | tcagactatc  | 1260 |
| atcctcaagg  | acattactag  | tgactcagaa  | aattcaaact  | tcagaaatga  | aatccaaagc  | 1320 |
| ttggtctaga  | gtgaaaaaca  | acaaattcag  | ttctgagtat  | atgcaattag  | tgtttgaaaa  | 1380 |
| gattcttaata | agctggctgt  | aaatactgct  | tggtttttta  | ctgggtacat  | tttatcatctt | 1440 |
| attagcgctg  | aagagccaac  | atattttag   | atttttaata  | tctcatgatt  | ctgcctccaa  | 1500 |
| ggatgtttaa  | aatctagtgt  | ggaaaacaaa  | cttcatcaag  | agtaaagca   | tgggcatgct  | 1560 |
| aagtacccaa  | ataggagtgt  | atgcagagga  | tgaagatta   | agattatgct  | ctggcatctca | 1620 |
| acatatgatt  | ctgtagtatg  | aatgtaatca  | gtgtatgtta  | gtacaaatgt  | ctatccacag  | 1680 |
| gtaaccccca  | ctctatgaat  | caatagaaga  | agctatgacc  | ttttgctgaa  | atatcagtta  | 1740 |
| ctgaacaggc  | aggccacttt  | gcctctaata  | tacctctgat  | aattctagag  | attttaccat  | 1800 |
| atttctaata  | ttgttttata  | actctgagaa  | gatcatattt  | atgtaaaagta | tatgtatttg  | 1860 |
| agtgcagaat  | ttaaataagg  | ctctacctca  | aagacctttg  | cacagtttat  | tgggtgcata  | 1920 |
| ttatacaata  | tttcaattgt  | gaattcacat  | agaaaacatt  | aaattataat  | gtttgactat  | 1980 |

|             |            |             |            |             |             |      |
|-------------|------------|-------------|------------|-------------|-------------|------|
| tatatatgtg  | tatgcatttt | actggctcaa  | aactacctac | ttctttctca  | ggcatcaaaa  | 2040 |
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| tcattcttaat | ggcctaattg | acccccaaac  | atggaatat  | caccaaaaaa  | tacttaatat  | 2160 |
| tccacaaaaa  | ggcaagactg | cccttagaaa  | ttctagcctg | gtttggagat  | actaactgct  | 2220 |
| ctcagagaaa  | gtagcttttg | gacatgtcat  | gaacccatgt | ttgcaatcaa  | agatgataaa  | 2280 |
| atagattctt  | atttttcccc | cacccccgaa  | aatgttcaat | aatgtcccat  | gtaaaacctg  | 2340 |
| ctacaaatgg  | cagcttatac | atagcaatgg  | taaaatcatc | atctggattt  | agggaattgct | 2400 |
| cttgtcatac  | ccccagttt  | ctaagattta  | agattctcct | tactactatc  | ctacgtttaa  | 2460 |
| atatctttga  | aagtttgtat | taaatgtgaa  | ttttaagaaa | taatatattat | atttctgtaa  | 2520 |
| atgtaaaactg | tgaagatagt | tataaaactga | agcagatacc | tgggaaccacc | taagaacctt  | 2580 |
| ccattttatgg | aggatttttt | tgccccttgt  | gtttggaatt | ataaaatata  | ggtaaaagta  | 2640 |
| cgtaattaaa  | taatgttttt | ggtaaaaaaa  | aaaaaaaaaa | aaaaaaaaaa  | aaaaaaaaaa  | 2700 |
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<210> 131

<211> 2563

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_152874.1| tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 8, mRNA

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| ccagcgaggc | ttccttccca | tctcctgac caccggggct tttcgtgagc tcgtctctga 120   |
| tctcgcgcaa | gagtgcaca  | cagggtgtca aagacgcttc tggggagtga ggaagcggt 180   |
| ttacgagtga | cttggctgga | gcctcagggg cgggcactgg cacggaacac accctgaggc 240  |
| cagccctggc | tgcccaggcg | gagctgcctc ttctcccgcg gggttggtgga cccgctcagt 300 |
| acggagttyg | ggaagctctt | tcacttcgga ggattgtcga acaaccatgc tgggcactctg 360 |
| gaccctccta | cctctggttc | ttacgtctgt tgctagatta tcgtccaaaa gtgttaaatgc 420 |
| caaagtgact | gacatcaact | ccaagggatt ggaattgagg aagactgtta ctacagtga 480   |
| gactcagaac | ttggaagccc | tgcatcatga tggccaattc tgccataagc cctgtcctcc 540  |
| aggtgaaagg | aaagctaggg | actgcacagt caatggggat gaaccagact gcgtgcctg 600   |
| ccaagaaggg | aaggagtaca | cagacaaagc ccatttttct tccaaatgca gaagatgtag 660  |



|  |      |
|--|------|
| attgtgtgat gaaggacatg atgtgaacat ggaatcatca aggaatgcac actcaccagc  | 720  |
| aacaccaagt gcaaaaggaga aggatccaga tctaacttgg ggtggccttg tcttctctct | 780  |
| ttgccaattc cactaattgt ttggggaaac agtggaata aatttatctg atgttgactt   | 840  |
| gagtaaat atcaccacta ttgctggagt catgacacta agtcaagtta aaggctttgt    | 900  |
| tcgaaagaat ggtgtcaatg aagccaaat agatgagatc aagaatgaca atgtccaaga   | 960  |
| cacagcagaa cagaaagtct aactgcctcg taattggcat caacttcatg gaaagaaaga  | 1020 |
| agcgtatgac acattgatta aagatctcaa aaagccaat ctttgtactc ttgcagagaa   | 1080 |
| aattcgact atcatcctca aggacattac tagtgactca gaaaattcaa acttcagaaa   | 1140 |
| tgaaatccaa agcttggctt agagtgaata acaacaaatt cagttctgag tatatgcaat  | 1200 |
| tagtgtttga aaagattctt aatagctggc tgtaaaact gcttgggttt ttactgggta   | 1260 |
| cattttatca ttattagcg ctgaagagcc aacatatctg tagattttta atatctcatg   | 1320 |
| attctgcctc caaggatgtt taaaatctag ttgggaaac aaacttcac aagagtaaat    | 1380 |
| gcagtggcat gctaagtacc caaataggag tgtatgcaga ggatgaaaga ttaagattat  | 1440 |
| gctctggcat ctaacatatg attctgtagt atgaatgtaa tcagtgtatg ttatgacaaa  | 1500 |
| tgcttatcca caggctaacc ccactctatg aatcaataga agaagctatg accttttgc   | 1560 |
| gaaatatcag ttactgaaca ggcaggccac ttgctctca aattacctct gataattcta   | 1620 |
| gagattttac catatttcta aactttgttt ataactctga gaagatcata tttatgtaaa  | 1680 |
| gtatatgtat ttgagtgcag aatttaaata aggccttacc tcaaagacct ttgcacagtt  | 1740 |
| tatttgggtgc atattatata atatttcaat tgtgaattca catagaaaac attaaattat | 1800 |
| aatgtttgac tattatatat gtgtatgcat ttacttggct caaaactacc tacttctttc  | 1860 |
| tcaggcatca aaagcatttt gagcaggaga gtattactag agctttgcc cctctccatt   | 1920 |
| tttgcttgg tgctcatctt aatggcctaa tgcaccccca aacatggaaa tatcaccaaa   | 1980 |
| aaatacttaa tagtcacca aaaggcaaga ctgcccttag aaattctagc ctggtttgga   | 2040 |
| gatactaact gctctcagag aaagtagctt tgtgacatgt catgaaccca tgtttgcaat  | 2100 |
| caaagatgat aaaatagatt cttatttttc cccaccctcc gaaaatgttc aataatgtcc  | 2160 |
| catgtaaaac ctgctacaaa tggcagctta tacatagcaa tggtaaaatc atcatctgga  | 2220 |
| tttaggaatt gctcttgcta taccctcaag ttcttaagat ttaagattct cttactact   | 2280 |
| atcctacgtt taaatatctt tgaaagtgtg tattaaatgt gaattttaag aaataatatt  | 2340 |
| tatatctctg taaatgtaaa ctgtgaagat agttataaac tgaagcagat acctggaacc  | 2400 |
| acctaaagaa cttccattta tggaggattt ttttgcctt tgtgtttgga attataaaat   | 2460 |
| ataggtaaaa gtacgtatatt aaataatgtt tttggtaaaa aaaaaaaaaa aaaaaaaaaa | 2520 |
| aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa                    | 2563 |

<210> 132  
 <211> 2445  
 <212> DNA  
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 <220>  
 <223> NM\_152876.1| tumor necrosis factor receptor superfamily,  
 member 6 (TNFRSF6), transcript variant 6, mRNA

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<400> 132
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tctcgcgcaa gagtgacaca cagggtgtca aagacgcttc tggggagtga gggaaagcgtt      180
ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc      240
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gaagtgaaga gaaaggaagt acagaaaaca tgcagaaagc acagaaagga aaaccaaggt      660
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gttcgaaaga atggtgtcaa tgaagccaaa atagatgaga tcaagaatga caatgtccaa      840
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aatgaaatcc aaagcttggt ctagagtga aaacaacaaa ttcagttctg agtatatgca      1080
attagtgttt gaaaagattc ttaatagctg gctgtaaata ctgcttggtt ttttactggg      1140
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tgattctgcc tccaaggatg tttaaaatct agttgggaaa acaaaacttca tcaagagtaa      1260
atgcagtggc atgctaagta cccaatagg agtgtatgca gaggatgaaa gattaagatt      1320
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aatgtctatc cacaggctaa cccactcta tgaatcaata gaagaagcta tgaccttttg      1440
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|          |                 |             |                  |             |             |      |
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| tagagat  | ttt accatatttc  | taaac       | tttgt ttataactct | gagaagatca  | tatttatgta  | 1560 |
| aagtata  | tgt atttgag     | tgc agaatt  | ttaa taaggctcta  | cctcaagac   | ctttgcacag  | 1620 |
| ttttatg  | gtg tcatattata  | caatatttc   | attgtgaatt       | cacatagaaa  | acattaaatt  | 1680 |
| ataatgt  | ttg actattatat  | atgtgtatgc  | attttactgg       | ctcaaaaacta | cctacttctt  | 1740 |
| tctcagg  | cat caaaagcatt  | ttgagcagga  | gagtattact       | agagctttgc  | cacctctcca  | 1800 |
| tttttgc  | cctt ggtgctcatc | ttaatggcct  | aatgcacccc       | caaacatgga  | aatatcacca  | 1860 |
| aaaaata  | ctt aatagtcac   | c aaaaggcaa | gactgccctt       | agaaattcta  | gcctggtttg  | 1920 |
| gagatact | aa ctgctctcag   | agaaagtagc  | tttgtgacat       | gtcatgaacc  | catgtttgca  | 1980 |
| atcaaat  | gat ataaaaataga | ttcttatttt  | tccccaccc        | ccgaaaaatgt | tcaataatgt  | 2040 |
| cccatgt  | aaaa acctgtcaca | aatggcagct  | tatacatagc       | aatggtaaaa  | tcactcatctg | 2100 |
| gatttag  | gaa ttgctcttgt  | cataccccc   | agtttcttaag      | atttaagatt  | ctccttacta  | 2160 |
| ctatcct  | acg tttaaatattc | tttgaaagtt  | tgtattaaat       | gtgaatttta  | agaaataata  | 2220 |
| tttatatt | ctc tgtaaatgta  | aactgtgaag  | atagttataa       | actgaagcag  | atacctggaa  | 2280 |
| ccaccta  | aaag aacttccatt | tatggaggat  | ttttttgccc       | cttgtgtttg  | gaattataaa  | 2340 |
| atatagg  | taa aagtacgtaa  | ttaaataatg  | tttttggtaa       | aaaaaaaaaa  | aaaaaaaaaa  | 2400 |
| aaaaaaaa | aaaaaaaa        | aaaaaaaa    | aaaaaaaa         | aaaaa       |             | 2445 |

<210> 133

<211> 2508

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_152877.1| tumor necrosis factor receptor superfamily, member 6 (TNFRSF6), transcript variant 7, mRNA

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| ccagcgaggc | ttccttccca  | tctctctgac caccggggct tttcgtgagc tctgtctgta 120  |
| tctcgcgcaa | gagtgacaca  | cagggtgttca aagacgcttc tggggagtga ggaagcgggt 180 |
| ttacgagtga | cttggtctgga | gcctcagggg cgggcactgg cacggaacac accctgaggc 240  |
| cagccctggc | tgcccagcgc  | gagctgcctc ttctcccgcg ggttggtgga ccgcctcagt 300  |
| acggagtgtg | ggaagctctt  | tcacttcgga ggattgtca acaaccatgc tgggcatctg 360   |
| gaccctccta | cctctggttc  | ttacgtctgt tgctagatta tcgtccaaaa gtgttaaatgc 420 |
| ccaagtgact | gacatcaact  | ccaagggatt ggaattgagg aagactgtta ctacagtga 480   |

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| gactcagaac  | ttggaaggcc | tgcatcatga | tggccaattc | tgccataagc | cctgtcctcc  | 540  |
| agatgtgaac  | atggaatcat | caaggaatgc | acactcacca | gcaacaccaa | gtgcaaagag  | 600  |
| gaaggatcca  | gatctaactt | ggggtggcct | tgtcttcttc | ttttgccaat | tccactaatt  | 660  |
| gtttgggtga  | agagaaagga | agtacagaaa | acatgcagaa | agcacagaaa | ggaaaaccaa  | 720  |
| ggttctcatg  | aatctccaac | cttaaatcct | gaaacagtg  | caataaattt | atctgatggt  | 780  |
| gacttgagta  | aatatatcac | cactattgct | ggagtcatga | cactaagtca | agttaaaggc  | 840  |
| ttgtttcgaa  | agaatgggtg | caatgaagcc | aaaatagatg | agatcaagaa | tgacaatgtc  | 900  |
| caagacacag  | cagaacagaa | agttcaactg | cttcgtaatt | ggcatcaact | tcatggaag   | 960  |
| aaagaagcgt  | atgacacatt | gattaaagat | ctcaaaaaag | ccaatctttg | tactcttgca  | 1020 |
| gagaaaaattc | agactatcat | cctcaaggac | attactagt  | actcagaaaa | ttcaaacctc  | 1080 |
| agaaatgaaa  | tccaaagcgt | ggcttagagt | gaaaacaac  | aaattcagtt | ctgagtatat  | 1140 |
| gcaattagt   | ttgaaaaga  | ttcttaatag | ctggctgtaa | atactgcttg | gttttttact  | 1200 |
| gggtacattt  | tatcatttat | tagcgctgaa | gagccaacat | attttagat  | ttttaatatc  | 1260 |
| tcatgattct  | gctccaagg  | atgtttaaaa | tctagttggg | aaaacaaact | tcatcaagag  | 1320 |
| taaatgcagt  | ggcatgctaa | gtacccaaat | aggagtgtat | gcagaggatg | aaagattaag  | 1380 |
| attatgctct  | ggcatctaac | atatgattct | gtagtatgaa | tgtaatcagt | gtatgttagt  | 1440 |
| acaaatgtct  | atccacaggc | taacccact  | ctatgaatca | atagaagaag | ctatgacctt  | 1500 |
| ttgctgaaat  | atcagttact | gaacaggcag | gccactttgc | ctctaaatta | cctctgataa  | 1560 |
| ttctagagat  | tttaccatat | ttctaaactt | tgtttataac | tctgagaaga | tcatatattat | 1620 |
| gtaaagtata  | tgtatttgag | tgagaattt  | aaataaggct | ctacctcaaa | gacctttgca  | 1680 |
| cagttttattg | gtgtcatatt | atacaatatt | tcaattgtga | attcacatag | aaaacattaa  | 1740 |
| attataatgt  | ttgactatta | tatatgtgta | tgcattttac | tggctcaaaa | ctacctactt  | 1800 |
| ctttctcagg  | catcaaaagc | attttgagca | ggagagtatt | actagagctt | tgccacctct  | 1860 |
| ccatttttgc  | cttgggtgct | atcttaatgg | cctaagtcac | ccccaaacat | ggaaatatca  | 1920 |
| ccaaaaata   | cttaatagtc | cacaaaaagg | caagactgcc | cttagaaatt | ctagcctggt  | 1980 |
| ttggagatac  | taactgctct | cagagaaagt | agctttgtga | catgtcatga | accatgttt   | 2040 |
| gcaatcaag   | atgataaaat | agattcttat | ttttcccca  | ccccgaaaa  | tgttcaataa  | 2100 |
| tgccccatg   | aaaacctgct | acaaatggca | gcttatacat | agcaatggta | aatcatcat   | 2160 |
| ctggatttag  | gaattgctct | tgcatatacc | caaagtttct | aagatttaag | attctcctta  | 2220 |
| ctactatcct  | acgttttaaa | atctttgaaa | gtttgtatta | aatgtgaatt | ttaagaaata  | 2280 |
| atatttata   | tctgttaaat | gtaaactgtg | aagatagtta | taaactgaag | cagatacctg  | 2340 |
| gaaccaccta  | aagaacttcc | atttatggag | gatttttttg | cccctgtgtg | ttggaattat  | 2400 |

|   |      |
|---|------|
| aaaatatagg taaaagtacg taattaaata atgtttttgg taaaaaaaaa aaaaaaaaaa | 2460 |
| aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa              | 2508 |

<210> 134

<211> 2583

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_152875.1| tumor necrosis factor receptor superfamily,  
member 6 (TNFRSF6), transcript variant 5, mRNA

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| ccagcgaggc ttccttccca tcctcctgac caccggggct tttcgtgagc tcgtctctga  | 120  |
| tctcgcgcaa gactgacaca caggtgttca aagacgcttc tggggagtga ggaagcgggt  | 180  |
| ttacgagtga cttggctgga gcctcagggg cgggcactgg cacggaacac accctgaggc  | 240  |
| cagccctggc tgcccagcgg gagctgcctc ttctcccgcg ggttggtgga cccgctcagt  | 300  |
| acggagttgg ggaagctctt tcacttcgga ggattgtca acaaccatgc tgggcatctg   | 360  |
| gaccctccta cctctggttc ttacgtctgt tgctagatta tcgtccaaaa gtgttaatgc  | 420  |
| ccaagtgact gacatcaact ccaagggatt ggaattgagg aagactgtta ctacagttga  | 480  |
| gactcagaac ttggaagggc tgcacatga tggccaattc tgccataagc cctgtcctcc   | 540  |
| agggtgaaagg aaagctaggg actgcacagt caatggggat gaaccagact gcgtgccttg | 600  |
| ccaagaaggg aaggagtaca cagacaaagc ccatttttct tccaaatgca gaagatgtag  | 660  |
| attgtgtgat gaaggacatg atgtgaacat ggaatcatca agaatgcac actcaccagc   | 720  |
| aacaccaagt gcaaaaggga agtgaagaga aagggaagac agaaaacatg cagaaagcac  | 780  |
| agaaaggaaa accaagggtc tcatgaatct ccaaccttaa atcctgaaac agtggaata   | 840  |
| aatttatctg atgttgactt gagtaaatat atcaccacta ttgctggagt catgacacta  | 900  |
| agtcaagtta aaggcttttg tcgaaagaat ggtgtcaatg aagccaaat agatgagatc   | 960  |
| aagaatgaca atgtccaaga cacagcagaa cagaagattc aactgcttcg taattggcat  | 1020 |
| caactctatg gaaagaaga agcgtatgac acattgatta aagatctcaa aaaagccaat   | 1080 |
| ctttgtactc ttgcagagaa aattcagact atcatcctca aggacattac tagtgactca  | 1140 |
| gaaaattcaa acttcagaaa tgaaatcaa agcttgggtc agagtgaata acaacaatt    | 1200 |
| cagttctgag tatatgcaat tagtgtttga aaagattctt aatagctggc tgtaataact  | 1260 |
| gcttggtttt ttactgggta cattttatca ttattagcg ctgaagagcc aacatatgtg   | 1320 |
| tagattttta atatctcatg attctgcctc caaggatgtt taaaatctag ttgggaaaac  | 1380 |

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| aaacttcac  | aagagtaaat | gcagtggcat | gctaagtacc  | caaataggag | tgtatgcaga  | 1440 |
| ggatgaaaga | ttaagattat | gctctggcat | ctaacatatg  | attctgtagt | atgaatgtaa  | 1500 |
| tcagtgtatg | ttagtacaaa | tgtctatcca | caggctaacc  | ccactctatg | aatcaataga  | 1560 |
| agaagctatg | accttttgc  | gaaatatcag | ttaactgaaca | ggcaggccac | tttgccctcta | 1620 |
| aattacctct | gataattcta | gagattttac | catattttcta | aactttgttt | ataactctga  | 1680 |
| gaagatcata | tttatgtaaa | gtatatgtat | ttgagtgcag  | aatttaaata | aggctctacc  | 1740 |
| tcaaagacct | ttgcacagtt | tattgggtgc | atattataca  | atatttcaat | tgtgaattca  | 1800 |
| catagaaaac | attaaattat | aatgtttgac | tattatatat  | gtgtatgcat | tttactggct  | 1860 |
| caaaactacc | tacttctttc | tcaggcatca | aaagcatttt  | gagcaggaga | gtattactag  | 1920 |
| agctttgcc  | cctctccatt | ttgctctgg  | tgctcatctt  | aatggcctaa | tgacccccc   | 1980 |
| aacatggaaa | tatcaccaaa | aaatacttaa | tagtccacca  | aaagcaaga  | ctgcccttag  | 2040 |
| aaattctagc | ctggtttgga | gatactaact | gctctcagag  | aaagtagctt | tgtgacatgt  | 2100 |
| catgaacca  | tgtttgcaat | caaagatgat | aaaatagatt  | cttatttttc | ccccacccc   | 2160 |
| gaaaatgttc | aataatgtcc | catgtaaaac | ctgtacaaa   | tggcagctta | tacatagcaa  | 2220 |
| tggtaaaatc | atcatctgga | tttaggaatt | gctcttgtca  | tacccccaa  | tttctaagat  | 2280 |
| ttaagattct | ccttactact | atcctacggt | taaatatctt  | tgaaagtgtg | tattaaatgt  | 2340 |
| gaattttaag | aaataatatt | tatatttctg | taaatgtaaa  | ctgtgaagat | agttataaac  | 2400 |
| tgaagcagat | acctggaacc | acctaagaa  | cttcatttta  | tggaggattt | ttttgccct   | 2460 |
| tggtgttgga | attataaaa  | ataggtaaaa | gtacgtaatt  | aaataatgtt | tttggtaaaa  | 2520 |
| aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa  | aaaaaaaaa   | aaaaaaaaa  | aaaaaaaaa   | 2580 |
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<210> 135

<211> 316

<212> DNA

<213> Homo sapiens

<220>

<223> gi|13310411|gb|AF333388.1|AF333388 metallothionein 1H-like protein mRNA, complete cds

<400> 135

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| cctcttctct | tctcgcttgg | gaacgccggt | ctcacctcgg | cttgaatgg  | accccaactg | 60  |
| ctcctgcgcc | gctggaggct | cctacgcctg | cgccggctcc | tgcaagtgc  | aaaagtgc   | 120 |
| atgcacctcc | tgaagaaga  | gctgctgctc | ctgttgcccc | ctgggctgtg | ccaagtgtgc | 180 |

|   |     |
|---|-----|
| ccagggctgc atccgcaaag gggcttcgga aaagtgcagc tgctgtgcct gatgtcggga | 240 |
| ctgccctgct ctcggatgaa aacagaatga cacgtaaagt ccgggatttt tttttctaca | 300 |
| actccgactc atttgc   | 316 |

<210> 136

<211> 3145

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000251. mutS...[gi:4557760]

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| gcttcgtgcy cttctttcag ggcattgccg agaagccgac caccacagtg cgccttttcg | 180  |
| accggggcga cttctatacg gcgcacggcg aggacgcgct gctggccgcc cgggaggtgt | 240  |
| tcaagacca gggggtgac aagtacatgg ggcgggcagg agcaagaat ctgcagagtg    | 300  |
| ttgtgcttag taaatgaat ttgaaatct ttgtaaaaga tcttctctg gtcgtcagat    | 360  |
| atagagtga agttataag aatagagctg gaaataaggc atccaaggag aatgattggt   | 420  |
| atttggcata taaggcttct cctggcaatc tctctcagtt tgaagacatt ctctttggta | 480  |
| acaatgatat gtcagcttcc attggtgttg tgggtgttaa aatgtccgca gttgatggcc | 540  |
| agagacaggt tggagtggg tatgtggatt ccatacagag gaaactagga ctgtgtgaa   | 600  |
| tccttgataa tgatcagttc tccaatcttg aggtctctct catccagatt ggaccaaaag | 660  |
| aatgtgtttt acccgaggga gagactgctg gagacatggg gaaactgaga cagataattc | 720  |
| aaagaggagg aattctgac acagaaagaa aaaaagctga cttttccaca aaagacattt  | 780  |
| atcaggacct caaccggttg ttgaaaggca aaaagggaga gcagatgaat agtgcgtgat | 840  |
| tgccagaaat ggagaatcag gttgcagttt catcactgtc tgcggaatc aagtttttag  | 900  |
| aactcttatc agatgattcc aactttggac agtttgaact gactactttt gacttcagcc | 960  |
| agtatatgaa attggaattt gcagcagtc gagcccttaa cttttttcag gtttctgttg  | 1020 |
| aagataccac tggtctctag tctctggctg ccttgctgaa taagtgtaaa accctcaag  | 1080 |
| gacaaagact tgtaaccag tggattaagc agcctctcat ggataagaac agaataagag  | 1140 |
| agagattgaa tttagtggaa gctttttag aagatgcaga attgaggcag actttacaag  | 1200 |
| aagatttact tcgtcgattc ccagatctta accgacttgc caagaagttt caaagacaag | 1260 |
| cagcaaaactt acaagattgt taccgactct atcagggtat aaatcaacta cctaagtta | 1320 |

|             |             |            |            |            |              |      |
|-------------|-------------|------------|------------|------------|--------------|------|
| tacaggctct  | ggaaaaacat  | gaaggaaaac | accagaaatt | attgttggca | gtttttgtga   | 1380 |
| ctcctcttac  | tgatcttctg  | tctgacttct | ccaagtttca | ggaaatgata | gaaacaactt   | 1440 |
| tagatatgga  | tcaggtggaa  | aaccatgaat | tccttgtaaa | accttcattt | gatcctaatac  | 1500 |
| tcagtgaatt  | aagagaaata  | atgaatgact | tggaaaagaa | gatgcagtca | acattaataa   | 1560 |
| gtgcagccag  | agatcttggc  | ttggaccctg | gcaaacagat | taactggat  | tccagtgcac   | 1620 |
| agtttggata  | ttactttctg  | gtaacctgta | aggaagaaaa | agtccttctg | aacaataaaa   | 1680 |
| actttagtac  | tgtagatatac | cagaagaatg | gtgttaaatt | taccaacagc | aaattgactt   | 1740 |
| ctttaaatga  | agagtatacc  | aaaaataaaa | cagaatatga | agaagcccg  | gatgccattg   | 1800 |
| ttaaagaaat  | tgtcaatatt  | tcttcaggct | atgtagaacc | aatgcagaca | ctcaatgatg   | 1860 |
| tgtagctca   | gctagatgct  | gttgctagct | ttgctcacgt | gtcaaatgga | gcacctgttc   | 1920 |
| catatgtacg  | accagccatt  | ttggagaaag | gacaaggaag | aattatatta | aaagcatcca   | 1980 |
| ggcatgcttg  | tgttgaagtt  | caagatgaaa | ttgcatttat | tcctaataac | gtatactttg   | 2040 |
| aaaaagataa  | acagatgttc  | cacatcatta | ctggcccaa  | tatgggaggt | aaatcaacat   | 2100 |
| atattcgaca  | aactggggtg  | atagtactca | tggcccaaat | tgggtgtttt | gtgccatgtg   | 2160 |
| agtcagcaga  | agtgccatt   | gtggactgca | tcttagcccg | agtaggggct | ggtgacagtc   | 2220 |
| aattgaaagg  | agtcctccag  | ttcatggctg | aaatgttggg | aactgcttct | atcctcaggt   | 2280 |
| ctgcaaccaa  | agattcatta  | ataatcatag | atgaattggg | aagaggaact | tctacctacg   | 2340 |
| atggatttgg  | gtagcatgg   | gctatatcag | aatacattgc | aacaagatt  | ggtgcttttt   | 2400 |
| gcatgtttgc  | aacctatttt  | catgaactta | ctgccttggc | caatcagata | ccaactgtta   | 2460 |
| ataatctaca  | tgtcacagca  | ctcaccactg | aagagacctt | aactatgctt | tatcagggtga  | 2520 |
| agaaagggtg  | ctgtgatcaa  | agttttggga | ttcatgttgc | agagcttgct | aatttcctta   | 2580 |
| agcatgtaat  | agagtgtgct  | aaacagaaag | ccctggaact | tgaggagttt | cagtatatattg | 2640 |
| gagaatcgca  | aggatatgat  | atcatggaac | cagcagcaaa | gaagtgttat | ctggaaagag   | 2700 |
| agcaagggtga | aaaaattatt  | caggagttcc | tgtccaaggt | gaaacaaatg | ccctttactg   | 2760 |
| aatgtgcaga  | agaaaacatc  | acaataaagt | taaaacagct | aaaagctgaa | gtaaatagcaa  | 2820 |
| agaataatag  | ctttgtaaat  | gaaatcattt | cacgaataaa | agttactacg | tgaaaaatcc   | 2880 |
| cagtaatgga  | atgaaggtaa  | tattgataag | ctattgtctg | taatagtttt | atattgtttt   | 2940 |
| atattaaccc  | tttttccata  | gtgttaactg | tcagtgccca | tgggctatca | acttaataag   | 3000 |
| atatttagta  | atattttact  | ttgaggacat | tttcaaagat | ttttattttg | aaaaatgaga   | 3060 |
| gctgtaactg  | aggactgttt  | gcaattgaca | taggcaataa | taagtgatgt | gctgaatttt   | 3120 |
| ataaataaaa  | tcatgtagtt  | tgtgg      |            |            |              | 3145 |



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 <212> DNA  
 <213> Homo sapiens  
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 tggagaacta tggatttgat aaaattgagg tgcgagataa cggggagggt atcaaggctg 420  
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 attcttatga aaataaaaa acagatgttt ccgcagctga catcgttctt agtaaaacag 1320  
 cagaaacaga tgtgcttttt aataaagtgg aatcatctgg aaagaattat tcaaatgttg 1380  
 atacttcagt cattccattc caaaatgata tgcataatga tgaatctgga aaaaacactg 1440  
 atgattgttt aaatcaccag ataagtattg gtgacttttg ttatggtcat ttagtagtg 1500

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| aaatttctaa cattgataaa aacactaaga atgcatttca ggacatttca atgagtaagt   | 1560 |
| tatcatggga gaactctcag acggaatata gtaaaacttg ttttataagt tccgttaagc   | 1620 |
| acaccagctc agaaaaatggc aataaagacc atatatagta gagggtgggaa aatgaggaag | 1680 |
| aagcagggtc tgaaaactct tcggaaatct ctgcagatga gtggagcagg ggaatatatac  | 1740 |
| ttaaaaatc agtgggagag aatattgaac ctgtgaaat tttagtgcct gaaaaaagtt     | 1800 |
| taccatgtaa agtaagtaat aataattatc caatccctga acaaatgaat cttaatgaag   | 1860 |
| attcatgtaa caaaaaatca aatgtaatag ataataaatc tggaaaagtt acagcttatg   | 1920 |
| atttacttag caatcgagta atcaagaaac ccatgtcagc aagtgtctct tttgttcaag   | 1980 |
| atcatcgctc tcagttttct atagaaaatc ctaagactag tttagaggat gcaacactac   | 2040 |
| aaattgaaga actgtggaag acattgagtg aagagggaaa actgaaatat gaagagaagg   | 2100 |
| ctactaaaga cttggaacga tacaatagtc aaatgaagag agccattgaa caggagtcac   | 2160 |
| aaatgtcact aaaagatggc agaaaaaaga taaaaccac cagcgcatgg aatttggccc    | 2220 |
| agaagcacaa gttaaaaacc tcattatcta atcaaccaa acttgatgaa ctctctcagt    | 2280 |
| ccc aaattga aaaaagaagg agtcaaaata ttaaaatggt acagatcccc ttttctatga  | 2340 |
| aaaacttaaa aataaatctt aagaaacaaa acaaagttga cttagaagag aaggatgaac   | 2400 |
| cttgcttgat ccacaatctc aggtttcctg atgcatggct aatgacatcc aaacagagg    | 2460 |
| taatgttatt aaatccatat agagtagaag aagccctgct atttaaaaga ctctcttgaga  | 2520 |
| atcataaact tcttcgagag ccactggaaa agccaattat gttacagag agtcttttta    | 2580 |
| atggatctca ttatttagac gttttatata aaatgacagc agatgaccaa agatacagtg   | 2640 |
| gatcaactta cctgtctgat cctcgtctta cagcgaatgg tttcaagata aaattgatac   | 2700 |
| caggagtctc aattactgaa aattacttgg aaatagaagg aatggctaatt tgtctcccat  | 2760 |
| tctatggagt agcagattta aaagaaatc ttaatgctat attaaacaga aatgcaaagg    | 2820 |
| aagtttatga atgtagacct cgaaagtga taagtatttt agaggggaaa gcagtcgctc    | 2880 |
| tatccagaca attaccatg tacttatcaa aagaggacat ccaagacatt atctacagaa    | 2940 |
| tgaagcacca gtttggaaat gaaattaaag agtgtgttca tggtcgcccc ttttttcatc   | 3000 |
| atttaaccta tcttccagaa actacatgat taaatatgtt taagaagatt agttaccatt   | 3060 |
| gaaattgggt ctgtcataaa acagcatgag tctgggttta aattatcttt gtattatgtg   | 3120 |
| tcacatgggt attttttaaa tgaggattca ctgacttggt tttatattga aaaaagttcc   | 3180 |
| acgtatttga gaaaacgtaa ataaactaat atagactatt caaaaaaaaa aaaaaaaaa    | 3239 |

<210> 138

<211> 2771

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000535. PMS2...[gi:11125773]

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tgtggggtag aagaagaaaa ctctgaaggc ttaactctga aacatcacac atctaagatt 300  
caagagtttg ccgacctaac tcaggttgaa acttttggtc ttcgggggga agctctgagc 360  
tcacttttgg cactgagcga tgtcaccatt tctacctgcc acgcatcggc gaaggttgga 420  
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cctgtggtat gcacaggtgg aagccccagc ataaagggaa atatcggtc tgtgtttggg 720  
cagaagcagt tgcaaaagct cattcctttt gttcagctgc cccctagtga ctccgtgtgt 780  
gaagagtacg gtttgagctg ttcggatgct ctgcataatc ttttttcatc ctcaggtttc 840  
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gactcggggc acggcagcac ttccgtggat tctgaggggt tcagcatccc agacacgggc 1560  
agtcactgca gcagcagta tgccggccagc tcccagggg acaggggctc gcaggaaatc 1620  
gtggactctc aggagaaagc gcctgaaact gacgactctt ttccagatgt ggactgccat 1680

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|--|------|
| tcaaaccagg aagataccgg atgtaaattt cgagttttgc ctcagccaac taatctcgca  | 1740 |
| accccaaaaca caaagcgttt taaaaaagaa gaaattcttt ccagttctga catttgtcaa | 1800 |
| aagttagtaa atactcagga catgtcagcc tctcaggttg atgtagctgt gaaaattaat  | 1860 |
| aagaaagttg tgccccggga cttttctatg agttctttag ctaaacgaat aaagcagtta  | 1920 |
| catcatgaag cacagcaaag tgaaggggaa cagaattaca ggaagttag ggcaaagatt   | 1980 |
| tgctctggag aaaatcaagc agccgaagat gaactaagaa aagagataag taaaacgatg  | 2040 |
| tttcagaaaa tggaaatcat tggtcagttt aacctgggat ttataataac caaactgaat  | 2100 |
| gaggatatct tcataatgga ccagcatgcc acggacgaga agtataactt cgagatgctg  | 2160 |
| cagcagcaca ccgtgtccca ggggcagagg ctcatagcac ctcagactct caacttaact  | 2220 |
| gctgttaatg aagctgttct gatagaaaat ctggaatat ttagaaagaa tggctttgat   | 2280 |
| tttgttatcg atgaaaatgc tccagtcact gaaagggcta aactgatttc cttgccaaact | 2340 |
| agtaaaaaact ggaccttcgg accccaggac gtcgatgaac tgatcttcat gctgagcgac | 2400 |
| agccctgggg tcattgtcgg gccttccga gtcaagcaga tgtttgcctc cagagcctgc   | 2460 |
| cggaaagtcg tgatgattgg gactgctctt aacacaagcg agatgaagaa actgatcacc  | 2520 |
| cacatggggg agatggacca cccctggaac tgtcccatg gaagccaac catgagacac    | 2580 |
| atcgccaacc tgggtgtcat ttctcagaac tgaccgtagt cactgtatgg aataattggt  | 2640 |
| tttatcgcag atttttatgt ttgaaagac agagtcttca ctaacctttt ttgttttaaa   | 2700 |
| atgaaacctg ctacttaaaa aaaatacaca tcacacccat ttaaaagtga tcttgagaac  | 2760 |
| cttttcaaac c   | 2771 |

<210> 139

<211> 4264

<212> DNA

<213> Homo sapiens

<220>

<223> NM\_000179. mutS...[gi:4504190]

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| aacggttggg ccttgccggc tgcggtatg tcgcgacaga gcacctgta cagcttcttc  | 120 |
| cccaagtctc cggcgctgag tgatgccaac aaggcctcgg ccagggcctc acgcaaggc | 180 |
| ggcgtgccg ccgctgccc cggggcctct cttcccccag gcggggatgc ggcctggagc  | 240 |
| gaggctgggc ctgggcccag gcccttgcg cgatccgcgt caccgcccaa ggcaagaac  | 300 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ctcaacggag  | ggctgctggag | atcggtagcg  | cctgctgccc | ccaccagttg  | tgactttctca | 360  |
| ccaggagatt  | tggtttgggc  | caagatggag  | ggttaccctt | ggtggccttg  | tctggtttac  | 420  |
| aaccaccctt  | ttgatggaac  | attcatccgc  | gagaaagga  | aatcagtcctg | tgttcatgta  | 480  |
| cagttttttg  | atgacagccc  | aacaaggggc  | tgggttagca | aaaggctttt  | aaagccatat  | 540  |
| acaggttcaa  | aatcaaagga  | agcccagaag  | ggaggtcatt | tttacagtgc  | aaagcctgaa  | 600  |
| atactgagag  | caatgcaacg  | tgcagatgaa  | gccttaaata | aagacaagat  | taagaggctt  | 660  |
| gaattggcag  | tttgtgatga  | gccttcagag  | ccagaagagg | aagaagagat  | ggaggtaggc  | 720  |
| acaacttacg  | taacagataa  | gagtgaagaa  | gataatgaaa | ttgagagtga  | agaggaagta  | 780  |
| cagcctaaga  | cacaaggatc  | taggcgaagt  | agccgccaaa | taaaaaaacg  | aagggtcata  | 840  |
| tcagattctg  | agagtgcacat | tgggtgctct  | gatgtggaat | ttaagccaga  | cactaaggag  | 900  |
| gaaggaagca  | gtgatgaaat  | aagcagtgga  | gtgggggata | gtgagagtga  | aggcctgaac  | 960  |
| agccctgtca  | aagttgctcg  | aaagcggaag  | agaatggtga | ctggaaatgg  | ctctcttaaa  | 1020 |
| aggaaaagct  | ctaggaagga  | aacgcccctca | gccaccaaac | aagcaactag  | catttcatca  | 1080 |
| gaaaccaaga  | atactttgag  | agcttttctt  | gcccccaaa  | attctgaatc  | ccaagccac   | 1140 |
| gttagtggag  | gtggtgatga  | cagtagtcgc  | cctactgttt | ggtatcatga  | aactttagaa  | 1200 |
| tggcctaagg  | aggaaaagag  | aagagatgag  | cacaggagga | ggcctgatca  | ccccgatttt  | 1260 |
| gatgcatcta  | cactctatgt  | gcctgaggat  | ttcctcaatt | ctgtactcc   | tgggatgagg  | 1320 |
| aagtgggtgc  | agattaagtc  | tcagaacttt  | gatcttgta  | tctgttacaa  | ggtggggaaa  | 1380 |
| ttttatgagc  | tgtaccacat  | ggatgctctt  | attggagtca | gtgaactggg  | gctgggtattc | 1440 |
| atgaaaggca  | actggggcca  | ttctggcttt  | cctgaaattg | catttggccg  | ttattcagat  | 1500 |
| tcctctggtgc | agaagggcta  | taaagtagca  | cgagtggaa  | agactgagac  | tccagaaatg  | 1560 |
| atggaggcac  | gatgtagaaa  | gatggcacat  | atatccaagt | atgatagagt  | ggtgaggagg  | 1620 |
| gagatctgta  | ggatcattac  | caagggtaca  | cagacttaca | gtgtgctgga  | agggtatccc  | 1680 |
| tctgagaact  | acagtaagta  | tcttcttagc  | ctcaagaaa  | aagaggaaga  | tcttctgggc  | 1740 |
| catactctgt  | catatgggtg  | gtgctttggt  | gatacttcac | tgggaaagt   | tttcataggt  | 1800 |
| cagttttcag  | atgatcgcca  | ttgttcgaga  | tttaggactc | tagtggcaca  | ctatccccc   | 1860 |
| gtacaagttt  | tatttgaaaa  | aggaaatctc  | tcaaaggaaa | ctaaaaaat   | tctaagagt   | 1920 |
| tcattgtcct  | gttctcttca  | ggaaggctcg  | ataccggct  | cccagttttg  | ggatgatcc   | 1980 |
| aaaactttga  | gaactctcct  | tgaggaaagaa | tattttaggg | aaaagctaag  | tgatggcatt  | 2040 |
| gggggtgatg  | tacccagggt  | gcttaaagggt | atgacttcag | agtctgattc  | cattggggtg  | 2100 |
| acaccaggag  | agaaaagtga  | attggccctc  | tctgctctag | gtgggtgtgt  | cttctacctc  | 2160 |
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| ttggattctg | acacagtcag  | cactacaaga  | tctggtgcta  | tcttcaccaa  | agcctatcaa  | 2280 |
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| ggttctactg | aaggaacctt  | actagagagg  | gttgatactt  | gccatactcc  | tttttgtaag  | 2400 |
| cggctcctaa | agcaatggct  | ttgtgcccc   | ctctgtaacc  | attatgctat  | taatgatcgt  | 2460 |
| ctagatgcc  | tagaagacct  | catggttggt  | cctgacaaaa  | tctccgaagt  | tgtagagcct  | 2520 |
| ctaaagaagc | ttccagatct  | tgagaggcta  | ctcagtaaaa  | ttcataatgt  | tggtgtctccc | 2580 |
| ctgaagatgc | agaaccaccc  | agacagcagg  | gctataatgt  | atgaagaaac  | tacatacagc  | 2640 |
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| atagggatca | tggaagaagt  | tgctgatggt  | tttaagtcta  | aaatccttaa  | gcaggtcatc  | 2760 |
| tctctgcaga | caaaaaatcc  | tgaaggctgt  | tttctgtatt  | tgactgtaga  | attgaaccga  | 2820 |
| tggtgatcac | cctttgacca  | tgaaaaggct  | cgaagactgt  | gacttattac  | tcccaagca   | 2880 |
| ggctttgact | ctgattatga  | ccaagctctt  | gctgacataa  | gagaaatga   | acagagcctc  | 2940 |
| ctggaatacc | tagagaacaa  | gcgcaacaga  | attggtgcta  | ggaccatagt  | ctattggggg  | 3000 |
| attggtagga | accgttacca  | gctggaaatt  | cctgagaatt  | tcaccactcg  | caatttgcca  | 3060 |
| gaagaatacg | agttgaaatc  | taccaagaag  | ggctgtaaac  | gatactggac  | caaaactatt  | 3120 |
| gaaaagaagt | tggtctaatct | cataaatgct  | gaagaacgga  | gggatgtatc  | attgaaggac  | 3180 |
| tgcatcgccg | gactgttcta  | taactttgat  | aaaaattaca  | aggactggca  | gtctgctgta  | 3240 |
| gagtgtatcg | cagtgttgga  | tgttttactg  | tgcttggcta  | actatagtcg  | agggggtgat  | 3300 |
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| gacattctaa | taggctgtga  | ggaagaggag  | caggaaaatg  | gcaaagccta  | ttgtgtgctt  | 3480 |
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| gtaatggccc | agatgggttg  | ttacgtccct  | gctgaagtgt  | gcaggctcac  | accaattgat  | 3600 |
| agagtgttta | ctagacttgg  | tgcttcagac  | agaataatgt  | cagggtgaaag | tacatttttt  | 3660 |
| gttgaattaa | gtgaaactgc  | cagcatactc  | atgcatgcaa  | cagcacattc  | tctggtgctt  | 3720 |
| gtggatgaat | taggaagagg  | tactgcaaca  | tttgatggga  | cggcaatagc  | aaatgcagtt  | 3780 |
| gttaagaac  | ttgctgagac  | tataaaatgt  | cgtaacattat | tttcaactca  | ctaccattca  | 3840 |
| ttagtagaag | attattctca  | aaatgttgct  | gtgctgctag  | gacatatggc  | atgcatggta  | 3900 |
| gaaaatgaat | gtgaagaccc  | cagccaggag  | actattacgt  | tcctctataa  | attcattaag  | 3960 |
| ggagcttgct | ctaaaagcta  | tggtcttaata | gcagcaaggc  | ttgctaattct | cccagaggaa  | 4020 |
| gttattcaaa | agggacatag  | aaaagcaaga  | gaatttgaga  | agatgaatca  | gtcactacga  | 4080 |
| ttatttcggg | aagtttgctt  | ggctagtga   | aggtcaactg  | tagatgctga  | agctgtccat  | 4140 |

```
aaattgctga ctttgattaa ggaattatag actgactaca ttggaagctt tgagttgact 4200
tctgaccaa ggtggtaaat tcagacaaca ttatgatcta ataaacttta ttttttaaaa 4260
atga 4264
```